Douglas PARTNERS

GROUNDED EXPERTISE

Volume 4 of 4
Appendix I, J, K, L

Report on Supplementary Site (Contamination) Investigation

Proposed Industrial Development

49-61 Stephen Road, Banksmeadow

Prepared for ESR Australia

Project 219609.01

12 December 2024

Appendix I

Field Sheets

Appendix I1

Borehole Logs

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334535.9, N:6241776.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 201
PROJECT No: 219609.02
DATE: 06/09/23
SHEET: 1 of 2

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10 / 0.16	CONCRETE: 8mm steel reinforcement at 0.11m depth			NA			ES		0.16	PID	<1ppm
		FILL / SAND: pale brown and grey; fine to medium; trace fine sandstone gravel.		FILL	ND	M		ES		0.40	PID	<1ppm
	0.60									0.50		
	9 / 1	FILL / SAND: brown and grey; fine to medium; trace fine igneous gravel.						ES		0.90	PID	<1ppm
										1.00	PID	<1ppm
								ES			SPT	1,1,2 N=3
				FILL	(VL)	D				1.45		
	8 / 2							ES		1.90	PID	<1ppm
										2.00		
	2.60									2.50	PID	<1ppm
	7 / 3	SAND (SP): brown and dark brown; fine to medium; with some weakly cemented bands up to 30mm thick.		AEO	L	D		ES			SPT	2,3,2 N=5
										2.95		
	3.60											
	6 / 4	SAND (SP): pale brown; fine to medium.			MD	M		ES		4.00	PID	<1ppm
											SPT	4,6,10 N=16
Water Level 06/09/23	5 / 5									4.45		
										5		
								ES		5.50	PID	<1ppm
											SPT	7,18,28 N=46
	4 / 6				D to VD					5.95		
								ES		6.50	PID	<1ppm
				AEO							SPT	14,20,20 N=40
	3 / 7									6.95		
						W						
	2 / 8							ES		8.00	SPT	17,28,25/100 (HB)
												<1ppm
					VD					8.40	PID	
	1 / 9	From 9.00m: pale grey								9		
								ES		9.50	PID	<1ppm
											SPT	16,25 (HB)
										9.75		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.16m, AD/T to 5.5m, WB to 20.0m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: JS
CASING: HW to 5.5m

Generated with CORE-GS by Geroc - Soil Log

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334535.9, N:6241776.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 201
PROJECT No: 219609.02
DATE: 06/09/23
SHEET: 2 of 2

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10.00	[CONT] SAND (SP): pale brown; fine to medium.										
		Silty SAND (SP): dark brown and dark grey; fine to medium; with peaty sands bands, typically 20-50mm thick.										
	11			EST	D			ES		11.00	PID	3ppm
											SPT	12,13,25 N=38
										11.45		
	12									12.00	PID	<1ppm
								ES			SPT	18,28 (R)
										12.30		
	12.50	SAND (SP): brown; fine to medium; trace peaty sand bands, typically 20-50mm thick.			VD							
	13							ES		13.00	SPT	6,30 (R)
										13.30	PID	<1ppm
	14	14.30m-14.60m: clay band			MD			ES		14.00	PID	<1ppm
											SPT	15,15,11 N=26
										14.45		
	15					W		ES		15.00	PID	<1ppm
											SPT	15,25 (R)
										15.25		
	16			EST				ES		16.00	SPT	35 (HB)
										16.15		
	17	17.50m-17.80m: possible clay band			VD					17	SPT	25,25/100 (R) No recovery
	18									18	SPT	35 (HB) No recovery
	19	Borehole discontinued at 20.00m depth. Target depth reached.								19	SPT	32,35/100 (HB) No recovery

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.16m, AD/T to 5.5m, WB to 20.0m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: JS
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334517.6, N:6241646.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 202
PROJECT No: 219609.02
DATE: 01/09/23
SHEET: 1 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10	0.04	ASPHALTIC CONCRETE						ES		0.15	PID	7ppm
		0.40	FILL / SAND: brown and grey; fine to medium; trace fine to coarse, angular to sub-angular igneous gravel; trace asphalt fragments.		FILL						0.25		
			SAND (SP): pale grey; fine.						* ES		0.50	PID	<1ppm
	9	1									0.70		
			From 1.50m: yellow-brown			L			* ES		0.80	PID	<1ppm
									ES		1.00	PID	<1ppm
												SPT	2,3,3 N=6
									* ES		1.50	PID	<1ppm
	8	2									1.70		
									ES		2.00	PID	<1ppm
											2.20		
									ES		2.50	PID	<1ppm
												SPT	1,2,2 N=4
	7	3					M				3.00	PID	<1ppm
									ES		3.20		
									ES		3.50	PID	<1ppm
											3.70		
	6	4				MD					4.00	PID	<1ppm
									ES			SPT	3,6,8 N=14
			From 4.50m: pale grey						ES		4.50	PID	<1ppm
											4.70		
	5	5			AEO	D			ES		5.00	PID	<1ppm
											5.20		
01/09/23 01:00			From 5.70m: slight to moderate sulphuric odour						ES		5.50	PID	<1ppm
	4	6										SPT	2,12,18 N=28
											5.95		
									ES		6.50	PID	<1ppm
												SPT	16,36,37 N=73
	3	7									6.95		
			7.50m: peaty silt lense approximately 10mm thick; slight chemical odour, slight sulphuric odour			VD	W		ES		7.50	PID	1ppm
												SPT	14,27,40 N=67
	2	8									7.95		
			From 8.50m: moderate sulphuric odour						ES		8.50	SPT	27,39,40/100 (HB)
													2ppm
	1	9									8.90	PID	<1ppm
												PID	
									ES		9.50	PID	<1ppm
		9.70	Silty SAND (SM): dark brown and brown; fine		EST	D			ES		9.70	SPT	22,30,33 N=63
													3ppm

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.04m, AD/T to 5.7m, WB to 20.0m
CASING: HW to 5.5m
REMARKS: *Field replicate BD1/20230901 taken from 0.5-0.7m, BD2/20230901 taken from 0.8-1.0m and BD3/20230901 taken from 1.5-1.7m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334517.6, N:6241646.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 202
PROJECT No: 219609.02
DATE: 01/09/23
SHEET: 2 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	11	0	to medium; with peaty sand lense approximately 70 mm thick; strong sulphuric odour.		EST	D			ES		10.50	PID PID SPT	2ppm 16,17,25 N=42
	12	1									10.95		
									ES		11.50	PID SPT	<1ppm 29,75/150 (HB)
		2									11.80		
											12		
		12.50	SAND (SP): grey-brown; fine to medium; slight to moderate sulphuric odour.			VD			ES		12.50	SPT	17,27,27 N=54 <1ppm
	13	3									12.95	PID	
									ES		13.50	SPT	28,48,61 N=100 <1ppm
	14	4					W				13.95	PID	
			14.65m: interbedded with sandy peat lenses, typically 50-200mm thick; slight sulphuric odour		EST	D			ES		14.50	PID	<1ppm
									ES		14.65	SPT	10,15,15 N=30 <1ppm
	15	5									14.95	PID	
									ES		15.50	PID SPT	<1ppm 5,15,15 N=30
	16	6									15.95		
									ES		16.50	PID SPT	<1ppm 16,22,24 N=46
	17	7				D					16.95		
		18.00	Peaty CLAY (OL): dark brown; low to medium plasticity; trace roots and decomposed organics; moderate sulphuric odour.		EST	VSt	w=PL		ES		18.00	PID SPT	11ppm 6,7,12 N=19
	19	8									18.45		
		19.40	SAND (SP): pale grey; fine; trace interbedded silty clay lenses approximately 40mm thick.		EST	VD	W		ES		19.50	PID SPT	<1ppm 19,39,42 N=81
		9											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.04m, AD/T to 5.7m, WB to 20.0m
REMARKS: *Field replicate BD1/20230901 taken from 0.5-0.7m, BD2/20230901 taken from 0.8-1.0m and BD3/20230901 taken from 1.5-1.7m

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334517.6, N:6241646.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 202
PROJECT No: 219609.02
DATE: 01/09/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		Borehole discontinued at 20.00m depth. Target depth reached.										

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NOTES: [#]Soil origin is "probable" unless otherwise stated. [*]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.04m, AD/T to 5.7m, WB to 20.0m
REMARKS: *Field replicate BD1/20230901 taken from 0.5-0.7m, BD2/20230901 taken from 0.8-1.0m and BD3/20230901 taken from 1.5-1.7m

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334639.3, N:6241749.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 203
PROJECT No: 219609.02
DATE: 05/09/23
SHEET: 1 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]	DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.25	CONCRETE			NA				ES		0.25	PID	8ppm
		0.60	FILL / SAND: grey-brown; fine to medium; trace fine to medium igneous gravel, rootlets and decomposed organics, clinker.		FILL	ND				* ES		0.60	PID	<1ppm
			SAND (SP): pale brown; fine to medium; trace iron-cemented nodules.									0.80		
										ES		1.00	PID	<1ppm
													SPT	3,5,4 N=9
							L			* ES		1.50	PID	<1ppm
												1.70		
										* ES		2.00	PID	<1ppm
												2.20		
								M		ES		2.50	PID	<1ppm
													SPT	3,5,5 N=10
			From 3.00m: pale grey							ES		3.00	PID	<1ppm
												3.20		
							MD			ES		3.50	PID	<1ppm
												3.70		
										ES		4.00		
													SPT	2,4,7 N=11
														<1ppm
					AEO					ES		4.50	PID	<1ppm
												4.70	PID	
▼ 05/09/23										* ES		5.00	PID	<1ppm
												5.20		
										ES		5.50	PID	<1ppm
													SPT	5,18,31 N=49
												5.95		
			7.00m: trace peaty sand lense up to 20mm thick				D	W		ES		7.00	PID	<1ppm
													SPT	5,15,23 N=38
												7.45		
		8.35	Peaty SAND (SP): dark grey and brown; fine to medium.		EST					ES		8.00	PID	<1ppm
													SPT	16,18,30 N=48
										ES		8.35		<1ppm
												8.45	PID	
		9.00	Silty SAND (SM): brown; fine to medium; with peaty sand bands, up to 300mm thick; slight to moderate sulphuric odour.		EST					ES		9.00	SPT	17,17,16 N=33
														<1ppm
												9.45	PID	

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.25m, AD/T to 5.5m, WB to 20.0 m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230905 taken from 0.6-0.8m, BD2/20230905 taken from 1.5-1.7m, BD3/20230905 taken from 2.0-2.2m and BD4/20230905 taken from 5.0-5.2m

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334639.3, N:6241749.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 203
PROJECT No: 219609.02
DATE: 05/09/23
SHEET: 2 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
	-1	11	[CONT] Silty SAND (SM): brown; fine to medium; with peaty sand bands, up to 300mm thick; slight to moderate sulphuric odour.			D			ES		10.45	PID SPT	2ppm 8,20,30 N=50
									ES		11.00	PID	2ppm
	-2	12	From 11.00m: decreasing peaty sand lenses						ES		11.45 12.00	SPT PID	9,15,16 N=31 2ppm
									ES		12.45	SPT	15,25,26 N=51
	-3	13	From 13.00m: grey-brown		EST	VD	W		ES		13.00 13.34	PID SPT	<1ppm 25,44,15/40 (HB)
	-4	14	From 14.00m: brown and dark brown; with peaty sand band, approximately 200mm thick			D			ES		14.00	SPT	5,19,23 N=42
											14.45	PID	<1ppm
	-5	15				VD			ES		15.00 15.30	PID SPT	<1ppm 10,35 (HB)
	-6	16							ES		16.00 16.30	PID SPT	<1ppm 16,38 (HB)
	-7	16.80 17	Peaty CLAY (OL): dark grey and brown; low to medium plasticity; trace iron stained laminations; strong sulphuric odour.		EST	VSt	w=PL		ES		17.00 17.45	PID SPT	1ppm 5,7,12 N=19
	-8	18									18		
		18.20	Silty SAND (SM): grey-brown; fine to medium.						ES		18.50 18.80	PID SPT	<1ppm 16,38 (HB)
	-9	19			EST	VD	W				19		
	-10												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.25m, AD/T to 5.5m, WB to 20.0 m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230905 taken from 0.6-0.8m, BD2/20230905 taken from 1.5-1.7m, BD3/20230905 taken from 2.0-2.2m and BD4/20230905 taken from 5.0-5.2m

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334639.3, N:6241749.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 203
PROJECT No: 219609.02
DATE: 05/09/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(##)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	19.99	Silty SAND (SM): grey; medium.		EST	VD	W		ES		20.22	PID SPT	<1ppm 35,25 (HB)
		Borehole discontinued at 20.22m depth. Target depth reached.										

NOTES: (##) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.25m, AD/T to 5.5m, WB to 20.0 m
CASING: HW to 5.5m
REMARKS: *Field replicate BD1/20230905 taken from 0.6-0.8m, BD2/20230905 taken from 1.5-1.7m, BD3/20230905 taken from 2.0-2.2m and BD4/20230905 taken from 5.0-5.2m

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334634.9, N:6241693.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 204
PROJECT No: 219609.02
DATE: 04/09/23
SHEET: 1 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.11	CONCRETE			NA			ES		0.15	PID	2ppm
			FILL / SAND: brown; fine to medium; trace metal fragments, iron cemented nodules . From 0.50m: pale grey and brown		FILL	ND			ES		0.25 0.50 0.70	PID	2ppm
	9	1.00	SAND (SP): pale yellow-brown; fine to medium; with weakly cemented dark brown bands. From 1.20m: dark brown						ES		1.00	PID SPT	1ppm 2,3,3 N=6
	8	2							* ES		1.50 1.70	PID	<1ppm
									* ES		2.00 2.20	PID	<1ppm
	7	3	From 2.50m: grading to pale grey			L	M		ES		2.50	PID SPT	<1ppm 2,3,4 N=7
									ES		3.00 3.20	PID	<1ppm
									ES		3.50 3.70	PID	<1ppm
	6	4			AEO				ES		4.00	PID SPT	<1ppm 3,9,12 N=21
▼ 04/09/23	5	5				MD			* ES		4.50 4.70	PID	<1ppm
									* ES		5.00 5.20	PID	<1ppm
	4	6				D			ES		5.50	PID SPT	<1ppm 5,15,19 N=34
	3	7.00	SAND (SP): pale grey; fine; trace peaty clay lenses, typically 5mm thick; slight sulphuric odour.		EST		W		ES		5.95 7.00	PID SPT	<1ppm 13,23,36 N=59
	2	8.00	Peaty SAND (SP): grey and brown; fine to medium; with clay; moderate sulphuric odour, slight hydrocarbon odour.		EST	VD			ES		7.45 8.00 8.38	PID SPT	2ppm 16,41,25/80 (HB)
	1	9.00	Silty SAND (SM): brown; fine to medium; with peaty clay; moderate to strong sulphuric odour, slight hydrocarbon odour; possible hydrocarbon staining.		EST	D			ES		9.00 9.45	SPT PID	11,19,21 N=40 5ppm
	0					VD							

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (SS)
LOGGED: ZW
METHOD: DT to 0.11m, AD/T to 5.5m, WB to 20.0m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230904 taken from 1.5-1.7m, BD2/20230904 taken from 2.0-2.2m, BD3/20230904 taken from 4.5-4.7m, BD4/20230904 taken from 5.0-5.2m and BD5/20230904 taken from 17- 17.45m

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334634.9, N:6241693.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 204
PROJECT No: 219609.02
DATE: 04/09/23
SHEET: 2 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
			[CONT] Silty SAND (SM): brown; fine to medium; with peaty clay; moderate to strong sulphuric odour, slight hydrocarbon odour; possible hydrocarbon staining.									PID	<1ppm
									ES		10.45	SPT	12,25,38 N=63
	11				EST	VD					11.00	PID	5ppm
									ES			SPT	16,28,44 N=72
			From 11.00m: slight hydrocarbon and sulphuric odour								11.45		
	12.00		SAND (SP): brown; fine to medium; with peat, dark brown peaty clay bands, typically 50mm thick.			D					12.00	PID	<1ppm
									ES		12.45	SPT	17,24,18 N=42
	13					VD					13.00	PID	2ppm
									ES			SPT	11,15,25/110 (HB)
			From 13.30m: dark grey and brown; with peaty clay bands, up to 200mm thick; moderate sulphuric odour				W				13.30		<1ppm
									ES		13.41	PID	
	14				EST	D					14.00		
									ES			SPT	10,20,27 N=47
											14.45		<1ppm
												PID	
	15		From 15.00m: brown; slight sulphuric odour			VD					15.00	PID	<1ppm
									ES			SPT	20,37,25/60 (HB)
											15.36		
	16										16.00	PID	<1ppm
									ES			SPT	15,27,30 N=57
											16.45		
	16.80												
	17		Peaty CLAY (OL): dark grey and brown; low to medium plasticity; trace iron stained laminations and iron-stained gravel; strong sulphuric odour.		EST	VSt	w=PL				17.00	PID	5ppm
									* ES			SPT	4,8,17 N=25
	17.90										17.45		
	18		SAND (SP): grey; fine to medium; trace carbonaceous clasts and peaty sand lenses (typically 10-20mm thick); slight sulphuric odour.								18		
											18.50	PID	<1ppm
									ES			SPT	27,42,25/70 (HB)
	19				EST	VD	W				18.87		
											19		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (SS)
LOGGED: ZW
METHOD: DT to 0.11m, AD/T to 5.5m, WB to 20.0m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230904 taken from 1.5-1.7m, BD2/20230904 taken from 2.0-2.2m, BD3/20230904 taken from 4.5-4.7m, BD4/20230904 taken from 5.0-5.2m and BD5/20230904 taken from 17-17.45m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334634.9, N:6241693.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 204
PROJECT No: 219609.02
DATE: 04/09/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	9.9 / 0	[CONT] SAND (SP): grey; fine to medium; trace carbonaceous clasts and peaty sand lenses (typically 10-20mm thick); slight sulphuric odour.		EST	VD	W		ES		20.40	PID SPT	<1ppm 24,36,25/100 (HB)
		Borehole discontinued at 20.40m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (SS)
LOGGED: ZW
METHOD: DT to 0.11m, AD/T to 5.5m, WB to 20.0m
CASING: HW to 5.5m
REMARKS: *Field replicate BD1/20230904 taken from 1.5-1.7m, BD2/20230904 taken from 2.0-2.2m, BD3/20230904 taken from 4.5-4.7m, BD4/20230904 taken from 5.0-5.2m and BD5/20230904 taken from 17- 17.45m

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334622.3, N:6241631.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 205
PROJECT No: 219609.02
DATE: 07/09/23
SHEET: 1 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
07/09/23 No free groundwater observed whilst augering		0.23	CONCRETE			NA							
			FILL / SAND: brown, pale grey and grey; fine to medium; with fine to medium igneous and sandstone gravel; trace clay.		FILL	ND			ES		0.25	PID	<1ppm
									ES		0.50	PID	<1ppm
		0.70									0.60		
			SAND (SP): pale grey; fine to medium; with brown and dark brown weakly cemented bands typically 20-50 mm thick.		AEO	VL to L	D		ES		0.90	PID	<1ppm
											1.00	PID	<1ppm
									ES			SPT	2,2,2 N=4
											1.45		
		2.60	SAND (SP): pale brown and pale grey; fine to medium.			L			ES		2.50	PID	<1ppm
												SPT	1,2,3 N=5
											2.95		
					AEO	MD	M		ES		4.00	SPT	2,6,8 N=14
											4.45	PID	<1ppm
									ES		5.50	PID	<1ppm
												SPT	2,10,15 N=25
											5.95		
		6.70	Silty SAND (SM): grey and dark grey; fine to medium; with peaty sand bands typically 20-50 mm thick; moderate sulphuric odour.				W		ES		6.50	PID	<1ppm
												SPT	20,33/150 (R)
					EST	VD					6.80		
									ES		8.00	PID	3ppm
												SPT	19,31/150 (R)
											8.30		
									ES		9.00	SPT	21,36/150 (R)
											9.30	PID	6ppm

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.23m, AD/T to 5.5m, WB to 19.9m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: JS
CASING: HW to 5.5m

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334622.3, N:6241631.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 205
PROJECT No: 219609.02
DATE: 07/09/23
SHEET: 2 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10.00	[CONT] Silty SAND (SM): grey and dark grey; fine to medium; with peaty sand bands typically 20-50 mm thick; moderate sulphuric odour.			D			ES		10.45	SPT PID	12,19,28 N=47 14ppm
	-1 / 11	Silty SAND (SM): brown and dark brown; trace peaty sand bands, typically 20-50mm thick; moderate sulphuric odour.		EST				ES		11.00 11.30	PID SPT	3ppm 26,43/150 (R)
	11.50	SAND (SP): brown, grey and pale brown; fine to medium; trace peaty sand bands, typically 20-50 mm thick; moderate sulphuric odour.						ES		12.00 12.30	PID SPT	3ppm 16,33/150 (R)
	-2 / 12											
	-3 / 13				VD	W		ES		13.00 13.45	PID SPT	2ppm 14,25,25 N=50
	-4 / 14	From 14.00m: slight sulphuric odour		EST				ES		14.00 14.30	PID SPT	<1ppm 20,35/150 (R)
	-5 / 15							ES		15.00 15.45	SPT PID	16,20,25 N=45 <1ppm
	-6 / 16							ES		16.00 16.45	PID SPT	4ppm 16,14,11 N=25
	16.40	Peaty Silty CLAY (OL): dark grey; low to medium plasticity; with peat layers up to 100 mm thick; moderate sulphuric odour.		EST	VSt	w<PL		ES		17.00 17.45	PID SPT	4ppm 6,11,14 N=25
	-7 / 17											
	17.70	SAND (SP): grey; fine to medium; trace clay and peaty sand.										
	-8 / 18									18		
	-9 / 19			EST	VD	W		ES		18.50 18.80	PID SPT	<1ppm 24,38/150 (R)
	-10									19		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.23m, AD/T to 5.5m, WB to 19.9m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: JS
CASING: HW to 5.5m

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334622.3, N:6241631.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 205
PROJECT No: 219609.02
DATE: 07/09/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	20	[CONT] SAND (SP): grey; fine to medium; trace clay and peaty sand.		EST	VD	W		ES		20.25	SPT	28,25/100 (HB) No Recovery
		Borehole discontinued at 20.25m depth. Target depth reached.										

NOTES: [#]Soil origin is "probable" unless otherwise stated. [*]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.23m, AD/T to 5.5m, WB to 19.9m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: JS
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334715.0, N:6241742.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 206
PROJECT No: 219609.02
DATE: 08/09/23
SHEET: 1 of 2

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.15	CONCRETE			NA					0.15	PID	1ppm
	0.30	FILL / SAND: pale grey; fine to medium; trace igneous and ironstone gravel, clinker and decomposed organics.		FILL	ND			ES		0.25		
		SAND (SP): pale grey; fine to medium.						* ES		0.50	PID	<1ppm
										0.70		
					L			ES		1.00	PID	<1ppm
											SPT	2,4,5 N=9
								* ES		1.50	PID	<1ppm
										1.70		
								* ES		2.00	PID	<1ppm
										2.20		
					MD	M		ES		2.50	PID	<1ppm
											SPT	4,9,14 N=23
				AEO				ES		3.00	PID	<1ppm
										3.20		
								ES		3.50	PID	<1ppm
										3.70		
								ES		4.00	PID	<1ppm
											SPT	2,19,24 N=43
▼ 08/09/23										4.45		
								* ES		5.00	PID	<1ppm
										5.20		
								ES		5.50		
											SPT	6,16,21 N=37
					D					5.95		
	6.50	Silty SAND (SM): grey; fine to medium; slight sulphuric odour.						ES		6.50	PID	<1ppm
											SPT	16,21,26 N=47
						W				6.95		
								ES		8.00		
											SPT	20,18,25 N=43
		From 8.35m: with peaty sand bands, typically 50-200mm thick		EST				ES		8.35		<1ppm
										8.45	PID	<1ppm
											PID	
										9.50	PID	<1ppm
					VD			ES			SPT	18,31 (HB)
										9.80		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.15m, AD/T to 5.5m, WB to 19.5m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230908 taken from 0.5-0.7m, BD2/20230908 taken from 1.5-1.7m, BD3/20230908 taken from 2.0-2.2m and BD4/20230908 taken from 5.0-5.2m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334715.0, N:6241742.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 206
PROJECT No: 219609.02
DATE: 08/09/23
SHEET: 2 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
	-1	11.00	[CONT] Silty SAND (SM): grey; fine to medium; slight sulphuric odour.		EST	VD					11.00	PID	<1ppm
			Silty SAND (SM): brown; fine to medium; with peaty sand bands, typically 50-200m thick.						ES			SPT	11,16,12 N=28
	-2	12				D					11.45		
						VD					12		
	-3	13					W		ES		12.50	PID	<1ppm
											12.73	SPT	25,27/80 (HB)
	-4	14	From 14.00m: moderate sulphuric odour		EST						13		
									ES		14.00	PID	1ppm
	-5	15	15.20m: peaty sand lense			D					14.45	SPT	10,14,25 N=39
									ES		15.00	PID	2ppm
	-6	16									15.45	SPT	4,13,24 N=37
		16.50	Peaty CLAY (OL): dark grey; low to medium plasticity; moderate sulphuric odour.		EST	H	w=PL		ES		16.50	PID	4ppm
	-7	17									16.95	SPT	5,18,18 N=36
	-8	17.80	SAND (SP): brown and grey; fine to medium; trace peaty sand bands, typically 50mm thick; slight sulphuric odour.		EST	D to VD	W		ES		18.00	PID	<1ppm
		18									18.30	SPT	22,25,13 N=38
	-9	19									19		
	-10		Borehole discontinued at 19.88m depth. Target depth reached.						ES		19.50	PID	<1ppm
											19.88	SPT	16,24,20/80 (HB)

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.15m, AD/T to 5.5m, WB to 19.5m
CASING: HW to 5.5m

REMARKS: *Field replicate BD1/20230908 taken from 0.5-0.7m, BD2/20230908 taken from 1.5-1.7m, BD3/20230908 taken from 2.0-2.2m and BD4/20230908 taken from 5.0-5.2m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.7 AHD
COORDINATE: E:334702.1, N:6241599.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 207
PROJECT No: 219609.02
DATE: 31/08/23
SHEET: 1 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.18	CONCRETE			NA							
	0.50	FILL / Silty SAND: grey and brown; fine to medium; trace slag, clinker, ironstone and sandstone gravel.		FILL	ND			ES		0.50	PID	<1ppm
		SAND (SP): pale brown; fine to medium; with some weakly cemented bands, up to 30mm thick.			L					0.70		
								ES		1.00	PID	<1ppm
											SPT	3,3,5 N=8
		From 1.50m: pale grey and brown						ES		1.45	PID	<1ppm
										1.70		
								ES		2.00	PID	<1ppm
										2.20		
		From 2.50m: pale yellow-brown			MD	M		ES		2.50	PID	<1ppm
											SPT	3,4,6 N=10
								ES		2.95	PID	<1ppm
										3.20		
								ES		3.50	PID	<1ppm
										3.70		
		From 4.15m: pale grey						ES		4.00	SPT	3,13,17 N=30
												<1ppm
								ES		4.45	PID	<1ppm
				AEO	D					4.70	PID	
								ES		5.00	PID	<1ppm
										5.20		
▼ 31/08/23								ES		5.50	PID	<1ppm
											SPT	3,12,20 N=32
										5.95		
		From 6.50m: minor silty clay laminations						ES		6.50	PID	<1ppm
											SPT	13,24,32 N=56
										6.95		
		7.50m: peaty clay lense			VD	W						
		From 8.00m: dark grey and grey; moderate sulphuric odour						ES		8.00	PID	<1ppm
											SPT	20,32,42 N=74
										8.45		
	9.00	Silty SAND (SM): brown; fine; moderate sulphuric odour.			D			ES		9.00	SPT	9,13,17 N=30
				EST								<1ppm
					VD					9.45	PID	

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.18m, AD/T to 5.5m, WB to 20.0m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.7 AHD
COORDINATE: E:334702.1, N:6241599.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 207
PROJECT No: 219609.02
DATE: 31/08/23
SHEET: 2 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	11	[CONT] Silty SAND (SM): brown; fine; moderate sulphuric odour.			VD			ES		10.45	PID SPT	<1ppm 12,21,39 N=60
	12	From 11.00m: brown; trace silty clay bands			D			ES		11.00 11.45	PID SPT	<1ppm 20,35,38 N=73
	13	12.43m: grey-brown; with clay bands and iron indurated bands		EST		W		ES		12.00 12.45	PID SPT	<1ppm 19,21,14 N=35
	14	From 13.00m: pale grey brown; no odour			VD			ES		13.00 13.45	PID SPT	<1ppm 20,38,42 N=80
	14.80							ES		14.00 14.45	SPT PID	23,33,34 N=67 <1ppm
	15	Peaty CLAY (OL): dark grey; low plasticity; trace iron cemented bands, moderate to strong sulphuric odour.		EST	St	w=PL		ES		15.00 15.45	PID SPT	10ppm 3,6,9 N=15
	16.20							ES ES		16.00 16.20 16.45	PID SPT PID	10ppm 4,10,21 N=31 <1ppm
	17	Silty SAND (SM): grey; fine to medium.						ES		17.00 17.45	PID SPT	<1ppm 15,19,25 N=44
	18	From 17.00m: grey-brown; trace sandy peat lenses; slight sulphuric odour		EST	VD	W				18		
	19	From 18.50m: decreasing peat lenses; no odour						ES		18.50 18.89	PID SPT	<1ppm 21,35,25/90 (HB)

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.18m, AD/T to 5.5m, WB to 20.0m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Generated with CORE-GS by Geroc - Soil Log

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.7 AHD
COORDINATE: E:334702.1, N:6241599.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 207
PROJECT No: 219609.02
DATE: 31/08/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	20	[CONT] Silty SAND (SM): grey; fine to medium.		EST	VD	W		ES			PID SPT	<1ppm 30,49,25/80 (HB)
		Borehole discontinued at 20.38m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.18m, AD/T to 5.5m, WB to 20.0m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334750.8, N:6241671.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 208
PROJECT No: 219609.02
DATE: 30/08/23
SHEET: 1 of 3

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.14	CONCRETE: 6mm reinforcement at 0.09m										
	9 1		FILL / SAND: brown; fine to medium; trace fine to medium igneous and ironstone gravel and glass fragments. From 0.40m: dark brown with yellow specks, slight hydrocarbon odour. 1.45m: ACM fragment		FILL	(VL) to (L)			ES		0.20	PID	12ppm
									ES		0.40		
									ES		0.50	PID	12ppm
									ES		0.70		
									ES		0.80	PID	12ppm
									ES		1.00	PID	<1ppm
									ES			SPT	2,2,2 N=4
									ES		1.50	PID	<1ppm
		1.70							ES		1.70		
	8 2		SAND (SP): pale grey; fine to medium.		AEO		M		ES		1.80	PID	<1ppm
									ES		2.00		
									ES	*	2.30	PID	<1ppm
									ES		2.50		
	7 3		From 3.00m: grey			L			ES			SPT	2,2,2 N=4
									ES		2.80		<1ppm
									ES		3.00	PID	<1ppm
									ES			PID	
									ES		3.30	PID	<1ppm
		3.60							ES		3.50		
	6 4		Silty SAND (SM): dark brown; fine.						ES		3.80	PID	<1ppm
									ES		4.00		
									ES			SPT	3,4,5 N=9
							D		ES		4.30		<1ppm
									ES		4.50	PID	
	5 5								ES		4.80	PID	<1ppm
▼									ES		5.00		
30/08/23									ES		5.30	PID	<1ppm
						MD			ES		5.50		
	4 6				AEO possibly EST				ES			SPT	2,8,15 N=23
											5.95		
			From 6.50m: brown, minor interbedded peat and clay lenses, slight sulphuric odour						ES		6.50	PID	<1ppm
									ES			SPT	3,13,21 N=34
	3 7					D			ES		6.95		
			From 7.70m: dark brown, with peaty silt, slight to moderate sulphuric odour, possible hydrocarbon staining and hydrocarbon odour				W		ES		7.50	SPT	8,16,23 N=39
													<1ppm
	2 8	8.00									7.95	PID	
			SAND (SP): pale grey; fine to medium; trace dark grey silty sand lenses; slight to moderate sulphuric odour.						ES		8.50	PID	<1ppm
									ES			SPT	21,35,41 N=76
	1 9				EST	VD					8.95		
												SPT	25,30 (HB) no recovery

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.14m, AD/T to 5.5m, WB to 20.0m
CASING: HW to 5.5m
REMARKS: *Field replicate BD1/20230830 taken from 2.3-2.5m. Material sample PACM3 collected from 1.45m. ACM = asbestos containing material

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334750.8, N:6241671.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 208
PROJECT No: 219609.02
DATE: 30/08/23
SHEET: 2 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	11 / 1	[CONT] SAND (SP): pale grey; fine to medium; trace dark grey silty sand lenses; slight to moderate sulphuric odour.			VD			ES	10.50–10.75	10.50	PID SPT	<1ppm 35,45/100 (HB)
	12 / 2			EST		W		ES	11.50–11.80	11.50	PID SPT	<1ppm 29,38 (HB)
	13 / 3	From 13.00m: grey, with peaty clay lenses, moderate sulphuric odour			D			ES ES	12.50–12.85 13.50–13.60	12.50 13.50	SPT PID SPT	8,35,22/50 (HB) <1ppm 5,17,20 N=37
	14 / 4				VD			ES	13.95–14.85	13.95 14.50	PID PID PID SPT	<1ppm 21,32,14/50 (HB)
	15 / 5									15.00		
	15.50	Peaty CLAY (OL): dark grey; low to medium plasticity; trace sand; strong sulphuric odour.		EST	VSt	w=PL		ES	15.50–15.95	15.50	PID SPT	<1ppm 5,7,11 N=18
	16 / 6									16.00		
	16.50	Silty SAND (SM): grey and brown; fine; with interbedded peaty clay lenses; trace iron cemented bands; moderate to strong sulphuric odour.			D to VD							
	17 / 7							ES	17.00–17.45	17.00	PID SPT	<1ppm 13,12,18 N=30
	18 / 8			EST		W				18.00		
	19 / 9				VD			ES	18.50–18.95	18.50	SPT PID	14,28,36 N=64 <1ppm

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: DT to 0.14m, AD/T to 5.5m, WB to 20.0m
CASING: HW to 5.5m
REMARKS: *Field replicate BD1/20230830 taken from 2.3-2.5m. Material sample PACM3 collected from 1.45m. ACM = asbestos containing material

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334750.8, N:6241671.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 208
PROJECT No: 219609.02
DATE: 30/08/23
SHEET: 3 of 3

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10 / 20	[CONT] Silty SAND (SM): grey and brown; fine; with interbedded peaty clay lenses; trace iron cemented bands; moderate to strong sulphuric odour.		EST	VD	W		ES		20.45	SPT	17,31,40 N=71 no recovery
		Borehole discontinued at 20.45m depth. Target depth reached.										

NOTES: [#]Soil origin is "probable" unless otherwise stated. [*]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: DT to 0.14m, AD/T to 5.5m, WB to 20.0m
REMARKS: *Field replicate BD1/20230830 taken from 2.3-2.5m. Material sample PACM3 collected from 1.45m. ACM = asbestos containing material

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334778.3, N:6241616.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 209
PROJECT No: 219609.02
DATE: 11/09/23
SHEET: 1 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
11/09/23 No free groundwater observed whilst augering	10	0	FILL / Silty SAND: dark grey and brown; fine to medium; low plasticity silt; with fine to coarse igneous and sandstone gravels; trace concrete fragments, slag, clinker, ash and resin (white and yellow acrylic in appearance) and rootlets; possibly hydrocarbon stained; slight hydrocarbon odour; grass cover.						A/ES		0.20	PID	4ppm
											0.50	PID	13ppm
									ES		0.70		
	9	1									1.00		
									ES		1.45	SPT PID	5,6,5 N=11 20ppm
	8	2	2.00m: ACM fragment						ES		2.00	PID	14ppm
											2.20		
			From 2.50m: with clay and concrete rubble; moderate chemical odour				M		ES		2.50	PID SPT	137ppm 9,15,17/100 (HB)
	7	3			FILL	VC					2.90		
									ES		3.50	PID	160ppm
											3.70		
	6	4	From 4.00m: decreasing anthropogenic inclusions						ES		4.00	SPT PID	3,8,4 N=12 150ppm
	5	5	From 5.00m: no observable anthropogenic inclusions; trace rootlets						ES		4.45 5.00	PID	267ppm
											5.20		
	4	6							ES		5.50	PID SPT	107ppm 3,2,2 N=5
											5.95		
	3	6.50	SAND (SP): pale grey-brown; fine to medium; slight chemical and hydrocarbon odour.		EST possibly AEO	MD			ES		6.50	PID SPT	12ppm 7,11,11 N=22
		7					W				6.95		
	2	8.00	Silty SAND (SM): brown and dark brown; with interbedded peaty sand bands, up to 200mm thick; slight hydrocarbon odour.		EST	VD			ES		8.00	PID SPT	<1ppm 12,25/150 (HB)
											8.30		
	1	9				D			ES		9.00	SPT PID	10,15,16 N=31 <1ppm
						VD					9.45		

BACKFILL: Bentonite
WELL PIPE

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: AD/T to 5.5m, WB to 19.5m
CASING: HW to 5.5m
REMARKS: Material sample PACM4 collected from 2.0m. ACM = asbestos containing material

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334778.3, N:6241616.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 209
PROJECT No: 219609.02
DATE: 11/09/23
SHEET: 2 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	0		[CONT] Silty SAND (SM): brown and dark brown; with interbedded peaty sand bands, up to 200mm thick; slight hydrocarbon odour.						ES		10.00	PID	<1ppm		
											10.45	SPT	12,22,24 (HB)		
	11										11.00	PID	<1ppm		
	-1								ES			SPT	14,26/150 (HB)		
						VD					11.30				
			From 11.00m: grey-brown; slight sulphuric odour												
	12		From 12.00m: brown; decreasing peaty sand bands		EST		W		ES		12.00	PID	<1ppm		
	-2										12.45	SPT	9,13,20 (HB)		
											13.00				
	13					D			ES			SPT	10,16,19 N=35		
	-3										13.45	PID	<1ppm		
														Gravel	
	14		From 14.00m: pale grey-brown			VD			ES		14.00	SPT	17,31/150 (HB)		
	-4										14.30	PID	<1ppm		
	14.50		Peaty CLAY (OL): dark grey; low to medium plasticity; moderate sulphuric odour.		EST	St to VSt	w=PL		ES		15.00	PID	4ppm		
	15		From 15.20m: grading into peaty sand; strong sulphuric odour						ES		15.20	SPT	7,5,10 (HB)		
	-5										15.45	PID	<1ppm		
	15.50		SAND (SP): grey-brown; fine to medium; slight sulphuric odour.												
	16										16				
	-6								ES		16.50	PID	<1ppm		
											16.73	SPT	28,25/80 (R)		
	17					VD					17				
	-7				EST		W							Bentonite	
	18								ES		18.00	PID	<1ppm		
	-8										18.25	SPT	23,25/100 (HB)		
											19				
	19		From 19.50m: grey			D									
	-9		Borehole discontinued at 19.95m depth. Target depth reached.						ES		19.50	PID	<1ppm		
												SPT	11,19,28 N=47		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
OPERATOR: Ground Test (DB)
LOGGED: ZW
METHOD: AD/T to 5.5m, WB to 19.5m
CASING: HW to 5.5m
REMARKS: Material sample PACM4 collected from 2.0m. ACM = asbestos containing material

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 8.7 AHD
COORDINATE: E:334788.1, N:6241582.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 210
PROJECT No: 219609.02
DATE: 12/09/23
SHEET: 1 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*)	DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
12/09/23 No free groundwater observed whilst augering	8	0	FILL / Silty SAND: dark grey and brown; fine to medium; low plasticity silt; with fine to coarse igneous and sandstone gravel and concrete; trace slag, clinker, rootlets; possibly hydrocarbon stained; slight hydrocarbon odour.		FILL	VC		M		ES		0.20	PID	5ppm		
										ES		0.50	PID	9ppm		
												0.70				
	1	1	1.20m: sandstone cobble (possible boulder)							ES		1.00	PID	<1ppm		
													SPT	11,8/70 (HB)		
	7											1.45				
	2	2								ES		2.00	PID	7ppm		
												2.20				
	6									ES		2.50	PID	12ppm		
													SPT	4,2,3 (HB)		
		3										2.95				
	5		From 3.50m: trace wire mesh; moderate hydrocarbon and slight chemical odour; hydrocarbon stained							ES		3.50	PID	11ppm		
												3.70				
	4	4	4.00m: possible boulder sized inclusion							ES		4.00	PID	6ppm		
												4.20				
	4		From 4.50m: possible void													
	5	5						W				5				
	3											5.50				
		5.80								ES			SPT	3,5,5 N=10		
	6	6	SAND (SP): grey and dark grey; fine to medium; hydrocarbon stained; slight to moderate hydrocarbon odour.		EST possibly AEO	MD				ES		5.80		<1ppm		
	2											5.95	PID	<1ppm		
													PID			
	7	7										7.00	PID	<1ppm		
										ES			SPT	11,15,19 N=34		
	1											7.45				
	8	8						NDF				8				
	0	8.50	Silty SAND (SM): brown and dark brown; with interbedded peaty sand bands, up to 200mm thick; moderate sulphuric odour and slight hydrocarbon odour.		EST	VD				ES		8.50	PID	<1ppm		
													SPT	12,10,12 N=22		
	9	9										8.95				
	-1									ES		9.50	PID	<1ppm		
													SPT	8,16,24 (HB)		

Bentonite

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: AD/T to 5.5m, WB to 19.5m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 8.7 AHD
COORDINATE: E:334788.1, N:6241582.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 210
PROJECT No: 219609.02
DATE: 12/09/23
SHEET: 2 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
		0	[CONT] Silty SAND (SM): brown and dark brown; with interbedded peaty sand bands, up to 200mm thick; moderate sulphuric odour and slight hydrocarbon odour.		EST				ES		9.95			Gravel	
	-2	11									10.50	SPT	16,30/150 (HB)		
											10.80	PID	<1ppm		
		11.50	Silty SAND (SM): pale brown and pale grey; fine to medium; trace interbedded dark brown peaty sand bands, up to 50mm thick; slight to moderate sulphuric odour.								11				
	-3	12				VD	NDF		ES		11.50	PID	<1ppm		
												SPT	13,18,26 (HB)		
											11.95				
	-4	13			EST				ES		12.50	PID	1ppm		
												SPT	16,27/150 (HB)		
											12.80				
	-5	13.60	Peaty CLAY (OL): dark grey; low to medium plasticity; moderate sulphuric odour.						ES		13				
		14			EST	VSt	w=PL				13.50	PID	<1ppm		
									ES		13.60	SPT	12,10,8 N=18		
													7ppm		
											13.95	PID			
	-6	14.50	SAND (SM): grey and brown; fine to medium; moderate sulphuric odour.						ES		14.50	SPT	26,25/80 (HB)		
											14.73	PID	1ppm		
		15									15				
	-7								ES		15.50	PID	<1ppm		
												SPT	28,25/70 (HB)		
											15.72				
		16									16				
	-8								ES		16.50	PID	<1ppm		
												SPT	20,25/120 (HB)		
											16.77				
		17			EST	VD	NDF				17			Bentonite	
	-9														
		18	18.00m: peaty clay lense approximately 200mm thick; strong sulphuric odour						ES		18.00	PID	9ppm		
			From 18.20m: becoming grey								18.20	SPT	6,20,25/110 (HB)		
	-10								ES		18.41				
												PID	4ppm		
		19									19				
			Borehole discontinued at 19.74m depth. Target depth reached.												
	-11								ES		19.50	PID	<1ppm		
												SPT	25,25/90 (HB)		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: EXPLORA
METHOD: AD/T to 5.5m, WB to 19.5m
REMARKS:

OPERATOR: Ground Test (DB)

LOGGED: ZW
CASING: HW to 5.5m

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334510.7, N:6241744.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH301
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
17/08/23 No free groundwater observed	10	0.18	CONCRETE			NA					0.20	PID	<1ppm
		0.40	FILL / SAND: grey-brown; fine to medium; trace rootlets, concrete and sandstone gravel.		FILL	ND	M		ES		0.40		
			FILL / SAND: orange-brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.50	PID	<1ppm
	9	0.90	SAND: pale grey; fine.		AEO	ND	M		ES		0.70		
											1.00	PID	<1ppm
									ES		1.20		
	8	2	Borehole discontinued at 2.00m depth. Test depth achieved.						ES		1.80	PID	<1ppm
											2.00		

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 2.0m.
REMARKS: Base of soil vapour implant installed at 0.8m, bentonite backfill 0.9-2.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334534.7, N:6241775.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH302
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 1 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
	10	0.18	CONCRETE			NA							
			FILL / SAND: grey-brown and brown; fine to medium; trace slag, igneous and sandstone gravel.		FILL	ND	M		ES		0.20	PID	1ppm
											0.40		
									ES		0.50	PID	<1ppm
		0.70									0.70		
	9	1	FILL / SAND: dark grey to pale grey; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.80	PID	<1ppm
											1.00		
									ES		1.30	PID	<1ppm
											1.50		
	8	2							ES		1.80	PID	<1ppm
		2.20									2.00		
			SAND: pale grey and pale brown; fine.						ES		2.30	PID	<1ppm
											2.50		
	7	3					M		ES		2.80	PID	<1ppm
											3.00		
											3.80	PID	<1ppm
	6	4							ES		4.00		
▼													
Free groundwater observed below 4.6m depth 17/08/23 09:00													
	5	5							ES*		4.80	PID	<1ppm
											5.00		
			From 6.50m: slight sulphuric odour		AEO	ND			ES		5.80	PID	<1ppm
	4	6									6.00		
									ES		6.80	PID	<1ppm
	3	7					W				7.00		
									ES		7.80	PID	<1ppm
	2	8									8.00		
									ES		8.80	PID	<1ppm
	1	9									9.00		
		9.60	SAND: dark grey; fine; strong sulphuric odour.		EST	ND	W		ES		9.80	PID	<1ppm

BACKFILL: Sand; Bentonite; Gravel
WELL PIPE

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ

METHOD: DT to 0.18m, PT to 6.0m, HSA to 11.6m.
CASING: Uncased

REMARKS: *Field replicate BD1/20230817 taken from 4.8-5.0m. Borehole collapse 7.2-11.6m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334534.7, N:6241775.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH302
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 2 of 2

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS			
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	0 / 10	[CONT] SAND: dark grey; fine; strong sulphuric odour.		EST	ND	W		ES		10.00				
	-1 / 11									10.80	PID	<1ppm		
	11.30	CLAY, with sand: dark grey; medium to high plasticity; fine sand; strong sulphuric odour.		EST	ND	w>PL		ES		11.00				
		Borehole discontinued at 11.60m depth. Target depth achieved.								11.50	PID	<1ppm		
	-2 / 12									11.60				
	-3 / 13													
	-4 / 14													
	-5 / 15													
	-6 / 16													
	-7 / 17													
	-8 / 18													
	-9 / 19													

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.18m, PT to 6.0m, HSA to 11.6m.
CASING: Uncased
REMARKS: *Field replicate BD1/20230817 taken from 4.8-5.0m. Borehole collapse 7.2-11.6m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334549.2, N:6241750.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH303
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.17	CONCRETE			NA					0.20	PID	3ppm
			FILL / SAND: grey-brown; fine to medium; trace slag and asphaltic concrete.		FILL	ND	M		ES		0.40		
	9 1								ES		0.70	PID	3ppm
											0.90		
									ES		1.20	PID	3ppm
											1.40		
		1.70	FILL / SAND: pale grey and brown; fine.		FILL	ND	M		ES		1.70	PID	4ppm
	8	2.00									1.90		
			FILL / SAND: dark brown to brown; fine; trace ash and sandstone gravel.		FILL	ND	M		ES		2.10	PID	3ppm
											2.30		
									ES		2.60	PID	4ppm
											2.80		
	7 3	2.90	SAND: pale grey; fine.						ES		3.00	PID	<1ppm
											3.20		
					AEO	ND	M						
	6 4								ES		3.80	PID	<1ppm
											4.00		
▼			From 4.85m: slight sulphuric odour				W		* ES		4.80	PID	<1ppm
Free groundwater observed below 4.85m depth 17/08/23 09:00	5 5	5	Borehole discontinued at 5.00m depth. Target depth achieved.								5.00		
	4 6												
	3 7												
	2 8												
	1 9												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.17m, PT to 5.0m.
CASING: Uncased

REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. *Field replicate BD2/20230817 taken from 4.8-5.0m depth. Base of soil vapour implant installed at 1.0m, bentonite backfill 1.1-5.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334545.1, N:6241734.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH304
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.18	CONCRETE			NA					0.20	PID	4ppm
	0.30	FILL / Gravelly SAND: dark grey; fine to coarse; fine to medium, igneous gravel; trace slag.		FILL	ND	M		ES		0.30	PID	2ppm
		FILL / SAND: grey-brown; fine; trace ash and sandstone gravel.		FILL	ND	M		ES		0.50		
	1.60	SAND: pale grey; fine.						ES		0.80	PID	1ppm
								ES		1.00		
								ES		1.30	PID	2ppm
								ES		1.50		
								ES		1.70	PID	<1ppm
								ES		1.90		
								ES		2.30	PID	<1ppm
						M		ES		2.50		
								ES		2.80	PID	<1ppm
								ES		3.00		
				AEO	ND			* ES		3.80	PID	<1ppm
		From 4.60m-5.50m: grey, strong hydrocarbon odour						ES		4.00		
▼ Free groundwater observed below 4.6m depth 17/08/23 09:00								ES		4.30	PID	6ppm
								ES		4.50	PID	1784ppm
								ES		4.80	PID	786ppm
						W		ES		5.00		
								ES		5.30	PID	42ppm
								ES		5.50		
								ES		5.80	PID	9ppm
								ES		6.00	PID	3ppm
	6	Borehole discontinued at 6.00m depth. Target depth achieved.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 6.0m.
REMARKS: *Field replicate BD3/20230817 taken from 3.8-4.0m. Base of soil vapour implant installed at 1.0m, bentonite backfill 1.1-6.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334533.1, N:6241714.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH305
PROJECT No: 219609.01
DATE: 22/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^) / DENSITY.(^)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
		0.19	CONCRETE			NA									
			FILL / SAND: pale grey and brown; fine; trace sandstone gravel.		FILL	ND	M		ES		0.20	PID	2ppm	Sand	
											0.30				
									ES		0.50	PID	4ppm		
	9	1.00									0.70				
			FILL / SAND: pale grey, brown and dark brown; fine; trace sandstone gravel.		FILL	ND	M		ES		1.00	PID	4ppm		
											1.20				
									ES		1.50	PID	3ppm		
		1.80									1.70				
	8	2	SAND: pale grey; fine.						ES		2.00	PID	<1ppm	Bentonite	
											2.20				
	7	3					M		ES		2.80	PID	<1ppm		
											3.00				
	6	4			AEO	ND			ES		3.80	PID	<1ppm		
▼											4.00				
Free groundwater observed below 4.8m depth 22/08/23	5	5	From 5.50m: slight sulphuric odour						* ES		4.80	PID	20ppm	Gravel	
											5.00				
	4	6					W		ES		5.80	PID	10ppm		
											6.00				
	3	7							ES		6.80	PID	5ppm		
											7.00				
	2	8	Borehole discontinued at 7.00m depth. Target depth achieved.												
	1	9													
	0														

NOTES: (#) Soil origin is "probable" unless otherwise stated. (^) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.19m, PT to 5.0m, HSA to 7.0m.
CASING: Uncased
REMARKS: *Field replicate BD1/20230822 taken from 4.8-5.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334548.9, N:6241714.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH306
PROJECT No: 219609.01
DATE: 11/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/08/23 No free groundwater observed	0.19	CONCRETE			NA					0.20	PID	2ppm
		FILL / SAND: grey-brown; fine to medium; trace ash, sandstone and igneous gravel.		FILL	ND	M		ES		0.30		
								ES		0.40	PID	<1ppm
	0.70									0.60		
	9 1	FILL / SAND: pale grey and yellow; fine.		FILL	ND	M		ES		0.80	PID	<1ppm
	1.10									1.00		
		FILL / Clayey SAND: dark brown; fine; medium to high plasticity clay.		FILL	ND	M		ES		1.20	PID	<1ppm
										1.40		
	1.70											
	8 2	SAND: pale grey-yellow; fine.						ES		1.80	PID	<1ppm
										2.00		
	7 3			AEO	ND	M		ES		2.80	PID	<1ppm
										3.00		
	6 4							ES		3.80	PID	<1ppm
										4.00		
		Borehole discontinued at 4.00m depth. Target depth achieved.										
	5 5											
	4 6											
	3 7											
	2 8											
	1 9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: Push tube to 4.0m
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. Base of soil vapour implant installed at 1.0m, bentonite backfill 1.1-4.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334575.0, N:6241733.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH307
PROJECT No: 219609.01
DATE: 25/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS	BACKFILL	WELL PIPE
		0.18	CONCRETE			NA									
	9	1	FILL / SAND: pale brown and grey; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.20	PID	4ppm	Sand	
											0.40				
									ES		0.50	PID	1ppm		
											0.70				
									ES		1.00	PID	2ppm		
											1.20				
		1.40	FILL / SAND: brown to dark brown; fine.		FILL	ND	M		ES		1.50	PID	1ppm		
											1.70				
		1.80	SAND: pale grey and yellow; fine.						ES		1.90	PID	<1ppm		
	8	2									2.10				
	7	3							ES		2.80	PID	<1ppm	Bentonite	
											3.00				
	6	4					M		ES		3.80	PID	<1ppm		
											4.00				
	5	5			AEO	ND			ES		4.80	PID	16ppm		
▼ 25/08/23											5.00				
Free groundwater observed below 5.5m depth	4	6							ES		5.80	PID	<1ppm	Gravel	
											6.00				
	3	7					W		* ES		6.80	PID	<1ppm		
											7.00				
	2	8							ES		7.80	PID	<1ppm		
											8.00				
	1	9	Borehole discontinued at 8.00m depth. Target depth achieved.												

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ

METHOD: DT to 0.18m, PT to 8.0m.
CASING: Uncased

REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. *Field replicate BD2/20230825 taken from 6.8-7.0m depth. Borehole collapse 7.5-8.0m.

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334590.6, N:6241759.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH308
PROJECT No: 219609.01
DATE: 22/08/23
SHEET: 1 of 2

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.18	CONCRETE			NA			ES		0.20	PID	3ppm
			FILL / SAND: grey brown to dark brown; fine; trace ash, slag, sandstone and igneous gravel.								0.40		
	9	1			FILL	ND	M		ES		0.50	PID	5ppm
											0.70		
									ES		1.00	PID	2ppm
											1.20		
		1.60	SAND: pale grey; fine.						ES		1.70	PID	3ppm
	8	2									1.90		
									ES		2.80	PID	<1ppm
	7	3					M				3.00		
									ES		3.80	PID	2ppm
	6	4			AEO	ND					4.00		
▼ 22/08/23 09:00									ES		4.80	PID	<1ppm
Free groundwater observed below 4.9m depth	5	5									5.00		
	4	6					W		ES		5.80	PID	1ppm
											6.00		
		6.50	SAND: dark grey; fine.						ES		6.80	PID	1ppm
	3	7									7.00		
									ES		7.80	PID	2ppm
	2	8			AEO possibly EST	ND	W				8.00		
									ES		8.80	PID	2ppm
	1	9	From 9.50m: sulphuric odour								9.00		
									ES		9.80	PID	<1ppm

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.18m, PT to 5.0m, AD/T to 11.0m.
CASING: Uncased
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334590.6, N:6241759.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH308
PROJECT No: 219609.01
DATE: 22/08/23
SHEET: 2 of 2

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*]	DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
			[CONT] SAND: dark grey; fine.		AEO possibly EST	ND		W				10.00		
		10.80										10.80	PID	<1ppm
	-1	11	CLAY: dark grey; medium to high plasticity; sulphuric odour.		EST	ND		w>PL		ES		11.00		
			Borehole discontinued at 11.00m depth. Target depth achieved.											
	-2	12												
	-3	13												
	-4	14												
	-5	15												
	-6	16												
	-7	17												
	-8	18												
	-9	19												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.18m, PT to 5.0m, AD/T to 11.0m.
CASING: Uncased
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334588.1, N:6241732.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH309
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10 / 0.18	CONCRETE			NA					0.20	PID	7ppm
		FILL / SAND: brown and pale grey; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.40		
	9 / 1							ES		0.50	PID	3ppm
										0.70		
								ES		0.90	PID	2ppm
										1.10		
	1.20	SAND: pale grey and some yellow; fine.						ES		1.20	PID	<1ppm
										1.40		
	8 / 2							ES		1.80	PID	<1ppm
										2.00		
	7 / 3					M		ES		2.80	PID	<1ppm
										3.00		
	6 / 4			AEO	ND			ES		3.80	PID	<1ppm
										4.00		
▼ Free groundwater observed below 4.7m depth 16/08/23 09:00	5 / 5							ES		4.80	PID	<1ppm
										5.00		
	4 / 6					W		ES		5.80	PID	<1ppm
										6.00		
	3 / 7							ES		6.80	PID	<1ppm
										7.00		
	7.60	SAND: dark grey and brown; fine; slight sulphuric odour.		EST	ND	W		ES		7.80	PID	<1ppm
	2 / 8									8.00		
	1 / 9	Borehole discontinued at 8.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 5.0m, AD/T to 8.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334587.1, N:6241707.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH310
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.18	CONCRETE			NA					0.20	PID	5ppm
			FILL / SAND: brown; fine to medium; trace ash and sandstone gravel.		FILL	ND	M		ES		0.40		
		0.70									0.50	PID	4ppm
			FILL / SAND: pale grey and dark grey; fine; trace sandstone gravel.		FILL	ND	M		ES		0.70		
											0.80	PID	6ppm
									ES		1.00		
											1.20	PID	4ppm
									ES		1.40		
		1.50	SAND: grey, pale grey and yellow; fine.								1.60	PID	1ppm
									ES		1.80		
											2.60	PID	1ppm
									ES		2.80		
							M				3.60	PID	<1ppm
									ES		3.80		
											4.60	PID	<1ppm
					AEO	ND			ES		4.80		
▼			From 5.40m: slight sulphuric odour								5.60	PID	<1ppm
Free groundwater observed below 5.4m depth 16/08/23 09:00									* ES		5.80		
							W				6.60	PID	<1ppm
									ES		6.80		
											7.60	PID	<1ppm
									ES		7.80		
		8.00	Borehole discontinued at 8.00m depth. Target depth achieved.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 6.0m, AD/T to 8.0m.
REMARKS: *Field replicate BD3/20230816 taken from 5.6-5.8m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334568.3, N:6241664.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH311
PROJECT No: 219609.01
DATE: 10/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.16	CONCRETE			NA							
		0.40	FILL / SAND: pale brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.20	PID	7ppm
			FILL / SAND: dark brown and grey; fine; trace ash, igneous and sandstone gravel.						ES		0.50	PID	6ppm
	9	1									0.70		
									ES		1.00	PID	9ppm
											1.20		
					FILL	ND	M		ES		1.50	PID	4ppm
	8	2									1.70		
									ES		2.00	PID	5ppm
											2.20		
									ES		2.50	PID	4ppm
	7	3									2.70		
		3.30	SAND: pale grey and yellow; fine.								3		
									ES		3.40	PID	2ppm
	6	4									3.60		
							M				4		
									ES		4.40	PID	3ppm
											4.60		
	5	5	From 5.20m: grey, slight sulphuric odour		AEO	ND					5		
▼ 10/08/23 09:00									ES		5.40	PID	3ppm
Free groundwater observed below 5.5m depth											5.60		
	4	6	From 6.00m: pale grey				W				6		
									ES		6.40	PID	3ppm
											6.60		
	3	7									7		
		7.20	SAND: dark brown; fine; slight sulphuric odour.										
									ES		7.40	PID	2ppm
											7.60		
	2	8									8		
									ES		8.40	PID	2ppm
					EST	ND	W				8.60		
	1	9									9		
									ES		9.40	PID	2ppm
											9.60		
	-0	10	Borehole discontinued at 10.00m depth. Target depth achieved.										

BACKFILL: Sand; Bentonite; Gravel
WELL PIPE

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ

METHOD: DT to 0.16m, PT to 6.0m, HSA to 10.0m.
CASING: Uncased

REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. Borehole collapse 7.7-10.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334608.8, N:6241737.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH312
PROJECT No: 219609.01
DATE: 23/08/23
SHEET: 1 of 2

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.14	CONCRETE			NA					0.15	PID	7ppm
		0.30	FILL / Gravelly SAND: dark grey; fine to medium, igneous gravel; trace slag and acm fragments.		FILL	ND	M		ES		0.25		
	9										0.40	PID	7ppm
			FILL / SAND: pale grey and brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.60		
	1										0.90	PID	<1ppm
		1.40							ES		1.10		
			FILL / SAND: dark brown; fine to medium; trace ash and sandstone gravel.		FILL	ND	M				1.50	PID	1ppm
		1.70							ES		1.70		
	8		SAND: pale grey; fine.								1.80	PID	<1ppm
									ES		2.00		
	2										2.80	PID	<1ppm
									ES		3.00		
	7						M						
	3										3.80	PID	<1ppm
									ES		4.00		
	6				AEO	ND							
	4												
▼ 23/08/23 09:00			From 4.70m: slight rotten cheese like odour						* ES		4.80	PID	2ppm
Free groundwater observed below 4.7m depth	5										5.00		
							W						
	4										5.80	PID	2ppm
									ES		6.00		
	6												
		6.50	SAND: dark grey; fine; slight sulphuric odour.								6.80	PID	2ppm
	3								ES		7.00		
	7												
											7.80	PID	2ppm
	2								ES		8.00		
	8				EST	ND	W						
											8.80	PID	2ppm
	1								ES		9.00		
	9												
											9.80	PID	2ppm
	0								ES				

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.14m, PT to 6.0m, AD/T to 11.0m.
CASING: Uncased
REMARKS: *Field replicate BD1/20230823 taken from 4.8-5.0m. Material sample PACM3 collected from 0.2m. ACM = asbestos containing material.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334608.8, N:6241737.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH312
PROJECT No: 219609.01
DATE: 23/08/23
SHEET: 2 of 2

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10.80	[CONT] SAND: dark grey; fine; slight sulphuric odour.		EST	ND	W				10.00		
	-1 / 11	Sandy CLAY: dark grey; high plasticity; fine sand; slight sulphuric odour.		EST	ND	w>PL		ES		10.80	PID	2ppm
		Borehole discontinued at 11.00m depth. Target depth achieved.								11.00		
	-2 / 12											
	-3 / 13											
	-4 / 14											
	-5 / 15											
	-6 / 16											
	-7 / 17											
	-8 / 18											
	-9 / 19											
	0											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ

METHOD: DT to 0.14m, PT to 6.0m, AD/T to 11.0m.
CASING: Uncased

REMARKS: *Field replicate BD1/20230823 taken from 4.8-5.0m. Material sample PACM3 collected from 0.2m. ACM = asbestos containing material.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334602.0, N:6241714.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH313
PROJECT No: 219609.01
DATE: 23/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.00	CONCRETE			NA							
		0.35	FILL / SAND: brown; fine to medium; trace glass, igneous and sandstone gravel.		FILL	ND	M		ES		0.40	PID	2ppm
		0.70	FILL / SAND: grey to dark grey; fine; trace sandstone gravel.		FILL	ND	M		ES		0.80	PID	<1ppm
	9	1									1.00		
		1.30	FILL / SAND: brown and orange-brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		1.40	PID	4ppm
											1.60		
	8	2.00	SAND: pale grey; fine.								2		
							M		ES		2.80	PID	5ppm
	7	3									3.00		
			From 4.00m: slight hydrocarbon odour						ES		3.80	PID	32ppm
	6	4									4.00		
			From 4.50m: strong hydrocarbon odour						ES		4.30	PID	3645ppm
											4.50		
▼ 23/08/23 09:00					AEO	ND			ES		4.80	PID	3189ppm
	5	5									5.00		
Free groundwater observed below 5.0m depth									ES		5.30	PID	3042ppm
											5.50		
	4	6					W		ES		5.80	PID	2866ppm
											6.00		
									ES		6.30	PID	586ppm
	3	7	From 7.10m: slight hydrocarbon odour								6.50		
									ES		6.80	PID	487ppm
											7.00		
		7.60	SAND: dark grey; fine; slight sulphuric odour.										
	2	8			EST	ND	W		ES		7.80	PID	48ppm
											8.00		
	1	9							ES		8.80	PID	10ppm
											9.00		
			Borehole discontinued at 9.00m depth. Target depth achieved.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.35m, PT to 6.0m, AD/T to 9.0m.
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334613.1, N:6241694.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH314
PROJECT No: 219609.01
DATE: 22/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.14	CONCRETE			NA			ES		0.15	PID	3ppm
		0.50	FILL / SAND: pale grey and brown; fine; trace wire, plastic and sandstone gravel.		FILL	ND	M				0.25		
	9	1	FILL / SAND: brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.60	PID	5ppm
											0.80		
									ES		1.00	PID	8ppm
											1.20		
		1.60	FILL / SAND: pale grey and brown; fine.		FILL	ND	M		ES		1.70	PID	4ppm
		1.90									1.90		
	8	2	SAND: pale grey; fine.						ES		2.00	PID	<1ppm
											2.20		
	7	3					M		ES		2.80	PID	<1ppm
											3.00		
	6	4			AEO	ND			ES		3.80	PID	<1ppm
											4.00		
▼ 22/08/23 09:00		5	From 5.10m: strong hydrocarbon odour (possibly sweet)						ES		4.80	PID	6ppm
Free groundwater observed below 5.1m depth											5.00		
									ES		5.30	PID	121ppm
	4	6					W				5.50		
									ES		5.80	PID	783ppm
											6.00		
									ES		6.30	PID	1129ppm
											6.50		
	3	7							ES		6.80	PID	368ppm
											7.00		
		7.20	SAND: dark grey; fine; slight sweet odour.		EST	ND	W		ES		7.30	PID	40ppm
											7.50		
	2	8							ES		7.80	PID	8ppm
											8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.										
	1	9											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.14m, PT to 6.0m, AD/T to 8.0m.
CASING: Uncased
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334602.7, N:6241640.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH315
PROJECT No: 219609.01
DATE: 11/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.19	CONCRETE			NA					0.20	PID	4ppm
			FILL / SAND: brown; fine to medium; trace ash, igneous and sandstone gravel.		FILL	ND	M		ES		0.30		
											0.50	PID	2ppm
		0.70							ES		0.70		
	9	1	FILL / SAND: pale grey; fine; trace sandstone gravel.		FILL	ND	M				0.80	PID	<1ppm
									ES		1.00		
		1.40	FILL / SAND: brown to dark brown; fine; slight sulphuric odour; trace sandstone gravel.		FILL	ND	M		ES		1.50	PID	<1ppm
		1.80									1.70		
	8	2	SAND: pale grey with some yellow; fine.						ES		1.80	PID	<1ppm
											2.00		
	7	3					M		* ES		2.80	PID	<1ppm
											3.00		
	6	4							ES		3.80	PID	<1ppm
											4.00		
▼ Free groundwater observed below 4.7m depth 11/08/23 09:00	5	5	From 4.70m: strong hydrocarbon odour (possibly sweet)		AEO	ND			ES		4.80	PID	396ppm
											5.00		
									ES		5.30	PID	1604ppm
											5.50		
	4	6	From 5.90m: dark brown, hydrocarbon staining				W		ES		5.80	PID	41ppm
											6.00		
									ES		6.30	PID	3ppm
											6.50		
	3	7							ES		6.80	PID	1ppm
											7.00		
		7.70	SAND: dark brown; fine; slight sulphuric odour.		EST	ND	W		ES		7.80	PID	<1ppm
	2	8									8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.										
	1	9											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.19m, PT to 8.0m.
CASING: Uncased
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. *Field replicate BD1/20230811 taken from 2.8-3.0m depth.

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334623.0, N:6241764.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH316
PROJECT No: 219609.01
DATE: 22/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^) / DENSITY.(^)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.18	CONCRETE			NA							
		0.40	FILL / Gravelly SAND: brown to pale brown; fine; fine to medium, sandstone and concrete gravel.		FILL	ND	M		ES		0.20	PID	2ppm
											0.40		
									ES		0.50	PID	3ppm
	9	1	FILL / SAND: pale grey and brown; fine; trace sandstone gravel.		FILL	ND	M				0.70		
									ES		1.00	PID	4ppm
		1.30									1.20		
			SAND: pale grey and yellow; fine.						ES		1.40	PID	<1ppm
											1.60		
	8	2							ES		1.80	PID	2ppm
											2.00		
	7	3					M		ES		2.80	PID	1ppm
											3.00		
▼	6	4	From 4.30m: strong rotten cheese like odour		AEO	ND			ES		3.80	PID	1ppm
Free groundwater observed below 4.3m depth 22/08/23 09:00											4.00		
	5	5					W		* ES		4.80	PID	5ppm
											5.00		
	4	6							ES		5.80	PID	5ppm
											6.00		
		6.50	SAND: dark grey; fine; strong rotten cheese like odour.										
	3	7							ES		6.80	PID	5ppm
											7.00		
	2	8			EST possibly AEO	ND	W		ES		7.80	PID	6ppm
											8.00		
	1	9							ES		8.80	PID	4ppm
											9.00		
	0	9.70	CLAY: dark grey; high plasticity; with fine to medium sand; rotten cheese like odour.		EST	ND	w>PL		ES		9.80	PID	5ppm
		10	Borehole discontinued at 10.00m depth. Target depth achieved.								10.00		

NOTES: (#) Soil origin is "probable" unless otherwise stated. (^) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 6.0m, AD/T to 10.0m.
REMARKS: *Field replicate BD2/20230822 taken from 4.8-5.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334628.6, N:6241754.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH317
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.18	CONCRETE			NA							
	9	1	FILL / SAND: pale grey and brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES	0.20 – 0.30	0.20	PID	2ppm
									ES	0.50 – 0.70	0.50	PID	4ppm
									ES	1.00 – 1.20	1.00	PID	2ppm
		1.60	SAND: pale grey; fine.						ES	1.70 – 1.90	1.70	PID	3ppm
	8	2											
	7	3					M		ES	2.80 – 3.00	2.80	PID	<1ppm
	6	4			AEO	ND			ES	3.80 – 4.00	3.80	PID	<1ppm
▼ Free groundwater below 4.5m depth 21/08/23 09:00	5	5	From 4.50m: strong rotten cheese odour				W		ES	4.80 – 5.00	4.80	PID	<1ppm
	4	6							ES	5.80 – 6.00	5.80	PID	2ppm
		6.60	SAND: dark grey; fine; strong rotten cheese like odour.						ES	6.80 – 7.00	6.80	PID	1ppm
	3	7											
	2	8			EST possibly AEO	ND	W		ES	7.80 – 8.00	7.80	PID	<1ppm
	1	9							ES	8.80 – 9.00	8.80	PID	<1ppm
	0	10							ES	9.80 – 10.00	9.80	PID	<1ppm
			Borehole discontinued at 10.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 7.0m, AD/T to 10m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334634.0, N:6241687.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH318
PROJECT No: 219609.01
DATE: 15/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*]	DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.15	CONCRETE			NA						0.20	PID	4ppm
			FILL / SAND: grey-brown; fine to medium; trace igneous and sandstone gravel.		FILL	ND		M		ES		0.40		
	9	0.90										0.70	PID	3ppm
			FILL / SAND: yellow-brown; fine.		FILL	ND		M		ES		0.90		
		1.30										1.00	PID	4ppm
			SAND: pale grey; fine.							ES		1.20		
	8	2										1.50	PID	<1ppm
										ES		1.70		
												2.00	PID	<1ppm
										ES		2.20		
												2.50	PID	<1ppm
	7	3						M		ES		2.70		
												3		
												3.50	PID	<1ppm
										* ES		3.70		
	6	4			AEO	ND						4		
▼ 15/08/23 09:00												4.50	PID	<1ppm
Free groundwater observed below 4.7m depth										ES		4.70		
	5	5										4.80	PID	<1ppm
										ES		5.00		
								W						
	4	6										5.80	PID	<1ppm
										ES		6.00		
		6.50												
			SAND: dark brown; fine; sulphuric odour.									6.80	PID	3ppm
	3	7								ES		7.00		
					EST	ND		W						
												7.80	PID	<1ppm
	2	8								ES		8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.											
	1	9												
	0													

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.15m, PT to 6.0m, AD/T to 8.0m.
REMARKS: *Field replicate BD1/20230815 taken from 3.5-3.7m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334620.3, N:6241632.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH319
PROJECT No: 219609.01
DATE: 10/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.24	CONCRETE			NA							
		0.40	FILL / SAND: grey; fine to coarse; with igneous and concrete gravel.		FILL	ND	M		* ES		0.25	PID	2ppm
			FILL / SAND: pale grey; fine to medium.		FILL	ND	M		ES		0.50	PID	<1ppm
		1.00	FILL / SAND: brown and dark grey; fine to medium; trace sandstone gravel.		FILL	ND	M		ES		0.70		
		1.30	SAND: pale grey and yellow; fine.						ES		1.10	PID	<1ppm
									ES		1.30		
									ES		1.40	PID	<1ppm
									ES		1.60		
									ES		1.90	PID	<1ppm
									ES		2.10		
									ES		2.80	PID	<1ppm
							M		ES		3.00		
					AEO	ND			* ES		3.80	PID	<1ppm
									ES		4.00		
									ES		4.80	PID	<1ppm
▼ Free groundwater observed below 5.3m depth 10/08/23 09:00							W		ES		5.00		
									ES		5.80	PID	<1ppm
		6.60	SAND: dark brown and dark grey; fine; slight sulphuric odour.						ES		6.00		
					AEO	ND	W		ES		6.80	PID	2ppm
									ES		7.00		
									ES		7.80	PID	4ppm
									ES		8.00		
			Borehole discontinued at 8.50m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.24m, PT to 6.0m, AD/T to 8.5m.
REMARKS: *Field replicate BD1/20230810 taken from 0.25-0.35m and BD2/20230810 taken from 3.8-4.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334697.9, N:6241691.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH320
PROJECT No: 219609.01
DATE: 18/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
18/08/23 09:00 No Free Groundwater Observed	9.9 / 0.30	FILL / Silty SAND; fine to medium; low to medium plasticity silt; with igneous and sandstone gravel; trace wire and slag.		FILL	ND	M		ES		0.10	PID	5ppm
										0.30		
								ES		0.40	PID	<1ppm
		SAND: pale grey; fine.								0.60		
	9.1 / 1			AEO	ND	M		ES		0.90	PID	<1ppm
										1.10		
	8.9 / 2	Borehole discontinued at 2.00m depth. Target depth achieved.						ES		1.80	PID	<1ppm
										2.00		
	7 / 3											
	6 / 4											
	5 / 5											
	4 / 6											
	3 / 7											
	2 / 8											
	1 / 9											
	0											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 2.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334700.8, N:6241696.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH320A
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/08/23 No Free Groundwater Observed	0.14	CONCRETE			NA					0.15		
	0.40	FILL / SAND: brown to dark brown; fine to medium; trace concrete, igneous and sandstone gravel.		FILL	ND	M		ES		0.25		
		SAND: pale grey; fine.		AEO	ND	M		ES		0.50		
	9 1	Borehole discontinued at 1.00m depth. Target depth achieved.						ES		0.60 0.90 1.00		
	8 2											
	7 3											
	6 4											
	5 5											
	4 6											
	3 7											
	2 8											
	1 9											
	0											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Hand tools
METHOD: DT to 0.14m, HA to 1.0m.
REMARKS:

OPERATOR: DP

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334706.9, N:6241689.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH320B
PROJECT No: 219609.01
DATE: 17/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
17/08/23 No Free Groundwater Observed	9.8	0.18	CONCRETE			NA					0.20	PID	6ppm
		0.40	FILL / SAND: dark brown; fine to medium; with slag, trace igneous and sandstone gravel.		FILL	ND	M		ES		0.40		
					FILL	ND	M				0.50	PID	5ppm
		0.70	FILL / SAND: grey-brown; fine; trace slag and igneous gravel.						ES		0.70		
	9										0.80	PID	3ppm
	1		SAND: pale grey; fine.						ES		1.00		
					AEO	ND	M				1.30	PID	<1ppm
	8								ES		1.50		
	2		Borehole discontinued at 2.00m depth. Target depth achieved.								1.80	PID	<1ppm
									ES		2.00		
	7	3											
	6	4											
	5	5											
	4	6											
	3	7											
	2	8											
	1	9											
	0												

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.18m, PT to 2.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334702.2, N:6241691.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH320C
PROJECT No: 219609.01
DATE: 18/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
18/08/23 No Free Groundwater Observed	0.19	CONCRETE			NA					0.20	PID	<1ppm
	0.40	FILL / Sandy GRAVEL: dark grey; igneous; fine to medium sand; with slag.		FILL	ND			ES		0.50	PID	<1ppm
		SAND: pale grey; fine.						ES		0.70		
	1			AEO	ND			ES		1.00	PID	<1ppm
										1.20		
	2	Borehole discontinued at 2.00m depth. Target depth achieved.						* ES		1.80	PID	<1ppm
										2.00		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 2.0m
REMARKS: *Field replicate BD2/20230818 taken from 1.8-2.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334692.0, N:6241692.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH320D
PROJECT No: 219609.01
DATE: 18/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^) / DENSITY.(^)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
18/08/23 No Free Groundwater Observed	9 8	0.10 0.30 0.40 1 2	FILL / Silty SAND: dark brown; fine to medium; low to medium plasticity silt; trace glass, plastic, wire, cobbles and igneous gravel. CONCRETE FILL / SAND: brown; fine to medium; with sandstone gravel; trace ash. SAND: pale grey; fine.		FILL FILL AEO	ND NA ND ND	W M M		ES ES ES ES * ES		0.01 0.10 0.30 0.40 0.50 0.70 0.80 1.00 1.80 2.00	PID PID PID PID PID	4ppm <1ppm <1ppm <1ppm <1ppm
	7 6 5 4 3 2 1 0	3 4 5 6 7 8 9	Borehole discontinued at 2.00m depth. Target depth achieved.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (^) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: AD/T to 0.3m, PT to 2.0m.
REMARKS: *Field replicate BD1/20230818 taken from 1.8-2.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334691.5, N:6241670.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH321
PROJECT No: 219609.01
DATE: 15/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.19	CONCRETE			NA							
	9	1	FILL / Gravelly SAND: brown; fine to medium; medium, igneous and sandstone gravel; with concrete; trace ash and brick fragments.		FILL	ND	M		ES		0.20	PID	3ppm
											0.40		
									ES		0.50	PID	3ppm
											0.70		
									ES		1.00	PID	2ppm
											1.20		
	8	1.60	FILL / SAND: grey-brown; fine to medium; with sandstone gravel.		FILL	ND	M		ES		2.00	PID	4ppm
		2									2.20		
	7	2.80	SAND: pale grey; fine.		AEO	ND	M		ES		3.00	PID	<1ppm
		3									3.20		
	6	4							ES		4.00	PID	<1ppm
											4.20		
▼ 15/08/23 0900	5	5							ES		5.00	PID	<1ppm
Free groundwater observed below 5.0m depth											5.20		
	4	6					W		ES		6.00	PID	2ppm
											6.20		
	3	6.80	SAND: dark grey-brown; fine; sulphuric odour.		EST		W		ES		7.00	PID	<1ppm
		7									7.20		
	2	8							ES		7.80	PID	<1ppm
											8.00		
	1	9	Borehole discontinued at 8.00m depth. Target depth achieved.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Georpobe
METHOD: DT to 0.19m, PT to 6.0m, AD/T to 8.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334704.7, N:6241637.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH322
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/08/23 No Free Groundwater Observed	0.16	CONCRETE			NA							
		FILL / SAND: dark brown; fine; trace concrete, igneous and sandstone gravel.		FILL	ND	M		ES		0.20	PID	2ppm
	0.50									0.40		
		FILL / SAND: grey-brown; fine; trace sandstone gravel.						ES		0.60	PID	<1ppm
										0.80		
								ES		1.00	PID	<1ppm
										1.20		
				FILL	ND	M						
								ES		1.80	PID	<1ppm
										2.00		
								ES		2.30	PID	<1ppm
										2.50		
	3.00							ES		2.80	PID	<1ppm
		SAND: pale grey; fine.		AEO	ND	M		ES		3.00	PID	<1ppm
										3.20		
								ES		3.80	PID	<1ppm
	4									4.00		
		Borehole discontinued at 4.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.16m, PT t0 4.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334705.4, N:6241645.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH322A
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/08/23 No Free Groundwater Observed	0.17	CONCRETE			NA							
	9 / 0.50	FILL / SAND: brown to pale brown; fine to medium; trace slag, igneous and sandstone gravel.		FILL	ND	M		ES		0.20	PID	<1ppm
										0.40		
		FILL / SAND: pale brown; fine; trace sandstone gravel.		FILL	ND	M		ES		0.60	PID	1ppm
	0.90									0.80		
		FILL / SAND: dark brown to brown; fine to medium; trace slag, igneous and sandstone gravel.		FILL	ND	M		ES		1.00	PID	2ppm
	1.20									1.20		
	8 / 2	FILL / SAND: pale grey to dark grey; fine; trace ash and sandstone gravel.		FILL	ND	M		ES		1.30	PID	1ppm
										1.50		
								ES		1.80	PID	<1ppm
										2.00		
								ES		2.30	PID	<1ppm
										2.50		
	7 / 3							ES		2.80	PID	1ppm
	3.20									3.00		
		SAND: pale grey; fine.		AEO	ND	M		ES		3.30	PID	<1ppm
										3.50		
	6 / 4							ES		3.80	PID	<1ppm
										4.00		
								* ES		4.30	PID	<1ppm
	5 / 5									4.50		
		Borehole discontinued at 5.00m depth. Target depth achieved.										
	4 / 6											
	3 / 7											
	2 / 8											
	1 / 9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.17m, PT to 5.0m.
REMARKS: *Field replicate BD1/20230816 taken from 4.3-4.5m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334711.1, N:6241637.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH322B
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
16/08/23 No Free Groundwater Observed		0.14	CONCRETE			NA							
			FILL / SAND: brown and grey; fine to medium; trace sandstone and igneous gravel.		FILL	ND	M		ES		0.20	PID	4ppm
											0.40		
									ES		0.50	PID	1ppm
											0.70		
									ES		1.00	PID	2ppm
											1.20		
									ES		1.50	PID	3ppm
											1.70		
									ES		2.00	PID	<1ppm
											2.20		
		3.00	SAND: pale grey; fine.		AEO	ND	M		ES		3.00	PID	<1ppm
											3.20		
									ES		3.80	PID	<1ppm
		4	Borehole discontinued at 4.00m depth. Target depth achieved.								4.00		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.14m, PT to 4.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334703.7, N:6241631.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH322C
PROJECT No: 219609.01
DATE: 16/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]	DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.20	CONCRETE			NA						0.20		
			FILL / SAND: dark brown; fine to medium; with slag, trace asphaltic concrete, sandstone and igneous gravel.		FILL	ND		M		ES		0.40	PID	5ppm
										ES		0.60	PID	4ppm
		1.10										0.80		
			SAND: pale grey; fine.							ES		1.20	PID	<1ppm
												1.40		
										ES		1.50	PID	<1ppm
												1.70		
										* ES		2.50	PID	<1ppm
												2.70		
			From 3.20m-3.50m: yellow and pale grey					M		ES		3.30	PID	<1ppm
												3.50		
					AEO	ND				ES		4.30	PID	<1ppm
												4.50		
▼										ES		4.80	PID	<1ppm
												5.00		
Free groundwater observed below 5.2m depth 16/08/23 09:00								W		ES		5.80	PID	<1ppm
												6.00		
										ES		6.80	PID	<1ppm
												7.00		
		7.50	SAND: dark brown; fine; sulphuric odour.		EST	ND		W		ES		7.80	PID	<1ppm
												8.00		
										ES		8.80	PID	<1ppm
		9.00	Borehole discontinued at 9.00m depth. Target depth achieved.									9.00		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.2m, PT to 5.0m, AD/T to 9.0m.
CASING: Uncased
REMARKS: *Field replicate BD2/20230816 taken from 2.5-2.7m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334700.6, N:6241638.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH322D
PROJECT No: 219609.01
DATE: 15/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.17	CONCRETE			NA							
		FILL / SAND: dark brown and grey; fine to medium; trace ash, sandstone and igneous gravel.		FILL	ND	M		ES		0.20 0.40	PID	2ppm
								ES		0.70 0.90	PID	2ppm
								ES		1.20 1.40	PID	4ppm
								ES		1.70 1.90	PID	2ppm
								ES		2.20 2.40	PID	2ppm
	2.50	SAND: pale grey; fine.		AEO	ND	M		ES		2.60 2.80	PID	<1ppm
								ES		3.60 3.80	PID	<1ppm
		Borehole discontinued at 4.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.17m, PT to 4.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334722.0, N:6241629.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH323
PROJECT No: 219609.01
DATE: 24/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
24/08/23 No Free Groundwater Observed	0.19	CONCRETE			NA							
	9 1	FILL / SAND: brown; fine to medium; slight sweet odour; trace wire, slag, brick fragments and sandstone gravel.		FILL	ND	M		ES		0.20	PID	20ppm
										0.40		
								ES		0.70	PID	12ppm
										0.90		
								ES		1.20	PID	48ppm
										1.40		
	8 2							ES		1.70	PID	94ppm
										1.90		
								ES		2.10	PID	107ppm
	2.40									2.30		
	7 3	FILL / SAND: pale grey and brown; fine to medium; slight sweet odour; trace ash.		FILL	ND	M		ES		2.50	PID	42ppm
										2.70		
								ES		3.10	PID	21ppm
	3.50									3.30		
	6 4	SAND: pale grey; fine.		AEO	ND	M		* ES		3.70	PID	10ppm
										3.90		
	5 5	Borehole discontinued at 5.00m depth. Target depth achieved.						* ES		4.70	PID	6ppm
										4.90		
	4 6											
	3 7											
	2 8											
	1 9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.19m, PT to 5.0m.
CASING: Uncased
REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. *Field replicates BD3/20230824 taken from 3.7-3.9m, BD4/20230824 taken from 4.7-4.9m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334721.0, N:6241621.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH324
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
21/08/23 No Free Groundwater Observed	9.9 / 0.12	CONCRETE			NA			ES		0.15	PID	2ppm
	9.8 / 0.40	FILL / SAND: brown; fine to medium; with sandstone gravel; trace igneous gravel.		FILL	ND	M				0.25		
	9 / 1.00	FILL / SAND: pale brown and brown; fine; trace sandstone gravel.		FILL	ND	M		ES		0.50	PID	2ppm
										0.70		
								ES		0.80	PID	2ppm
										1.00		
	8 / 2	SAND: pale grey; fine.		AEO	ND	M		ES		1.10	PID	<1ppm
										1.30		
								* ES		1.80	PID	<1ppm
										2.00		
		Borehole discontinued at 2.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.12m, PT to 2.0m.
REMARKS: *Field replicate BD2/20230821 taken from 1.8-2.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334714.9, N:6241618.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH325
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^) / DENSITY.(^)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.17	CONCRETE			NA							
			FILL / SAND: grey and brown; fine to medium; trace ash and sandstone gravel.		FILL	ND	M		ES		0.20 0.40	PID	3ppm
		0.70	SAND: pale grey; fine.						ES		0.50 0.70	PID	3ppm
	9	1							ES		0.80 1.00	PID	1ppm
									ES		1.30 1.50	PID	<1ppm
	8	2							ES		1.80 2.00	PID	<1ppm
	7	3					M		ES		2.80 3.00	PID	<1ppm
					AEO	ND							
	6	4							ES		3.80 4.00	PID	<1ppm
▼ 21/08/23 09:00	5	5							* ES		4.80 5.00	PID	<1ppm
Free groundwater observed below 5.0m depth	4	6					W		ES		5.80 6.00	PID	<1ppm
	3	6.60	SAND: dark grey; fine; slight sulphuric odour.		EST possibly AEO	ND	W		ES		6.80 7.00	PID	<1ppm
	2	7							ES		7.80 8.00	PID	<1ppm
	1	8	Borehole discontinued at 8.00m depth. Target depth achieved.										
	0	9											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (^) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.17m, PT to 5.0m, AD/T to 8.0m.
REMARKS: *Field replicate BD1/20230821 taken from 4.8-5.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334727.6, N:6241616.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH326
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.15	CONCRETE			NA			ES		0.15	PID	4ppm
		0.40	FILL / SAND: brown; fine to medium; with sandstone gravel; trace igneous gravel.		FILL	ND	M				0.25		
			FILL / SAND: grey; fine; trace sandstone gravel.		FILL	ND	M		ES		0.50	PID	2ppm
		0.90	SAND: pale grey; fine.								0.70		
									ES		1.00	PID	1ppm
											1.20		
									ES		1.80	PID	1ppm
											2.00		
									ES		2.80	PID	7ppm
							M				3.00		
			From 3.30m-4.00m: slight hydrocarbon odour						ES		3.30	PID	20ppm
											3.50		
					AEO	ND			ES		3.80	PID	240ppm
			From 4.00m: strong hydrocarbon odour								4.00		
									ES		4.30	PID	>5000ppm
											4.50		
▼									ES		4.80	PID	>5000ppm
											5.00		
									ES		5.30	PID	>5000ppm
											5.50		
							W		ES		5.80	PID	4102ppm
											6.00		
									ES		6.30	PID	2804ppm
											6.50		
		6.70	SAND: dark grey; fine; slight hydrocarbon odour.						ES		6.80	PID	1242ppm
											7.00		
									ES		7.30	PID	475ppm
											7.50		
					EST possibly AEO	ND	W		ES		7.80	PID	375ppm
											8.00		
									ES		8.30	PID	36ppm
											8.50		
									ES		8.80	PID	8ppm
		9.00	Borehole discontinued at 9.00m depth. Target depth achieved.								9.00		

Free groundwater below 5.1m depth 21/08/23 09:00

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.15m, PT to 6.0m, AD/T to 9.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334702.5, N:6241595.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH327
PROJECT No: 219609.01
DATE: 18/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]	DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
		0.18	CONCRETE			NA						0.20	PID	2ppm
		0.40	FILL / SAND: brown; fine to medium; trace slag, sandstone and igneous gravel.		FILL	ND		M		ES		0.40		
		0.80	FILL / SAND: yellow-brown and brown; fine to medium; trace sandstone gravel.		FILL	ND		M		ES		0.50	PID	<1ppm
		1	SAND: pale grey and yellow; fine.							ES		0.70		
										ES		1.00	PID	<1ppm
										ES		1.20		
		2								ES		1.80	PID	<1ppm
										ES		2.00		
		3						M		ES		2.80	PID	<1ppm
										ES		3.00		
		4			AEO	ND				ES		3.80	PID	<1ppm
										ES		4.00		
▼ Free groundwater below 4.9m depth 18/08/23 09:00		5	From 4.90m: slight sulphuric odour							ES		4.80	PID	<1ppm
										ES		5.00		
		6						W		ES*		5.80	PID	<1ppm
										ES		6.00		
		6.60	SAND: dark grey; fine; sulphuric odour.							ES		6.80	PID	<1ppm
		7								ES		7.00		
		8			EST possibly AEO	ND		W		ES		7.80	PID	<1ppm
										ES		8.00		
		9								ES		8.80	PID	<1ppm
			Borehole discontinued at 9.00m depth. Target depth achieved.									9.00		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.18m, PT to 5.0m, AD/T to 9.0m.
CASING: Uncased
REMARKS: *Field replicate BD3/20230818 taken from 5.8-6.0m.

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334750.3, N:6241616.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH328
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
21/08/23 No Free Groundwater Observed	0.30	FILL / SAND: dark brown; fine to medium; trace igneous and ironstone gravel.		FILL	ND	M		ES		0.10 0.30	PID	3ppm
	1	FILL / SAND: brown; fine, trace sandstone gravel.		FILL	ND	M		ES ES ES		0.40 0.60 0.80 1.00	PID PID	3ppm <1ppm
	2.00	FILL / SAND: grey-brown; fine; trace metal and sandstone gravel.		FILL	ND	M		ES ES		1.30 1.50 1.80 2.00 2.10 2.30	PID PID PID	2ppm 2ppm 2ppm
	2.60 3	SAND: pale grey and brown; fine.		AEO	ND	M		ES		2.80 3.00	PID	4ppm
	3.30 4	SAND: pale brown and pale grey; fine.		AEO	ND	M		ES		3.50 3.70 4	PID	2ppm
	5	Borehole discontinued at 5.00m depth. Target depth achieved.						ES		4.50 4.70	PID	3ppm

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 5.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334750.5, N:6241618.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH328A
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
21/08/23 No Free Groundwater Observed	0.40	FILL / Silty SAND: grey and brown; fine to medium; low to medium plasticity silt; trace rootlets, concrete and sandstone gravel.		FILL	ND	M		ES		0.10 0.30	PID	2ppm
	2.30	FILL / SAND: pale grey and pale brown; fine; trace sandstone gravel.		FILL	ND	M		ES ES ES ES ES		0.50 0.70 1.00 1.20 1.50 1.70 2.00 2.20	PID PID PID PID	1ppm <1ppm 3ppm 2ppm
	3.10	FILL / SAND: grey; fine; trace slag.		FILL	ND	M		ES		2.40 2.60	PID	12ppm
	4.00	FILL / SAND: brown; fine; slight hydrocarbon odour.		FILL	ND	M		ES ES		3.30 3.50 3.80 4.00	PID PID	70ppm 43ppm
	5	SAND: pale grey; fine.		AEO	ND	M		ES ES		4.10 4.30 4.80 5.00	PID PID	5ppm 3ppm
		Borehole discontinued at 5.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 5.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.8 AHD
COORDINATE: E:334752.0, N:6241616.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH328B
PROJECT No: 219609.01
DATE: 24/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
	9.80	0.30	FILL / SAND: dark brown; fine to medium, trace rootlets and sandstone gravel.		FILL	ND	M		ES	0.10–0.30	0.10	PID	3ppm
			FILL / SAND: pale grey and brown; fine; trace sandstone gravel.		FILL	ND	M		ES	0.50–0.70	0.50	PID	<1ppm
									ES	1.00–1.20	1.00	PID	3ppm
									ES	1.50–1.70	1.50	PID	3ppm
									ES	2.20–2.40	2.20	PID	1ppm
		2.60											
			FILL / SAND: dark grey; fine; medium plasticity clay; trace igneous and sandstone gravel.		FILL	ND	M		ES	2.70–2.90	2.70	PID	2ppm
		3.00											
			FILL / Sandy CLAY: dark brown; medium to high plasticity; fine to medium sand.		FILL	ND	w>PL		ES	3.10–3.30	3.10	PID	3ppm
									ES	3.50–3.60	3.50	PID	2ppm
		3.60	SAND: pale grey; fine.				M		ES	3.80–4.00	3.80	PID	<1ppm
▼													
Free groundwater observed below 5.0m depth 24/08/23 09:00					AEO	ND			ES	4.80–5.00	4.80	PID	2ppm
							W		ES	5.80–6.00	5.80	PID	3ppm
		6.60	SAND: dark brown; fine; sulphuric odour.		EST possibly AEO	ND	W		ES	6.80–7.00	6.80	PID	3ppm
									* ES	7.80–8.00	7.80	PID	2ppm
		8.00	Borehole discontinued at 8.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: PT to 6.0m, AD/T to 8.0m.
CASING: Uncased
REMARKS: *Field replicate BD1/20230824 taken from 7.8-8.0m.

Refer to explanatory notes for symbol and abbreviation definitions

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BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334750.2, N:6241614.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH328C
PROJECT No: 219609.01
DATE: 24/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	0.40	FILL / Silty SAND: brown to dark brown; fine to medium; low to medium plasticity silt; trace rootlets, slag and sandstone gravel.		FILL	ND	M		ES	0.10–0.30	0.10	PID	5ppm
		FILL / SAND: pale grey and brown; fine; trace sandstone gravel.		FILL	ND	M		ES	0.50–0.70	0.50	PID	7ppm
								ES	1.00–1.20	1.00	PID	2ppm
								ES	1.50–1.70	1.50	PID	4ppm
								ES	2.00–2.20	2.00	PID	3ppm
	2.50	FILL / Clayey SAND: dark brown and grey; fine to medium; medium to high plasticity clay; trace igneous gravel.		FILL	ND	M		ES	2.60–2.80	2.60	PID	3ppm
	3.10	FILL / SAND: pale grey and brown; fine; trace sandstone gravel.		FILL	ND	M		ES	3.20–3.40	3.20	PID	2ppm
								ES	3.70–3.90	3.70	PID	<1ppm
	4.00	SAND: pale grey; fine.				M		ES	4.10–4.30	4.10	PID	1ppm
▼ Free groundwater below 5.0m depth 24/08/23 09:00				AEO	ND	W		ES	4.80–5.00	4.80	PID	1ppm
								ES	5.80–6.00	5.80	PID	2ppm
	6.50	SAND: dark brown; fine; sulphuric odour.		EST possibly AEO	ND	W		ES	6.80–7.00	6.80	PID	<1ppm
							*	ES	7.80–8.00	7.80	PID	<1ppm
	8	Borehole discontinued at 8.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: Push tube to 6.0m, solid flight auger to 8.0m depth
CASING: Uncased
REMARKS: *Field replicate BD2/20230824 taken from 7.8-8.0m. Base of soil vapour implant installed at 1.2m, bentonite backfill 1.3-8.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334745.9, N:6241616.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH328D
PROJECT No: 219609.01
DATE: 21/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
21/08/23 No Free Groundwater Observed	9.9	0.23	CONCRETE			NA							
	9.67	0.40	FILL / SAND: grey-brown; fine to medium; trace glass, sandstone and igneous gravel.		FILL	ND	M		ES		0.25	PID	3ppm
	9	1	FILL / Silty SAND: brown and orange-brown; fine to medium; low to medium plasticity silt; trace timber, ash and sandstone gravel.		FILL	ND	M		ES		0.50	PID	3ppm
											0.70		
									ES		1.00	PID	<1ppm
											1.20		
	8.5	1.40	FILL / SAND; fine to medium; trace slag, ash and ironstone gravel.		FILL	ND	M		ES		1.50	PID	<1ppm
	8	2									1.70		
									ES		2.00	PID	<1ppm
											2.20		
	7.6	2.30	SAND: pale grey-yellow; fine.		AEO	ND	M		ES		2.40	PID	<1ppm
	7	3									2.60		
									ES		3.00	PID	<1ppm
											3.20		
	6	4	Borehole discontinued at 4.00m depth. Target depth achieved.										
	5	5											
	4	6											
	3	7											
	2	8											
	1	9											
	0												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.23m, PT to 4.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334763.1, N:6241632.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH329
PROJECT No: 219609.01
DATE: 14/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	9 1	0.00	FILL / Silty SAND: dark brown, brown and grey; fine to medium; low to medium plasticity silt; trace slag, acm fragments (surface), rootlets, concrete, igneous and sandstone gravel.		FILL	ND	M		ES		0.10	PID	<1ppm
									ES		0.30		
									ES		0.50	PID	<1ppm
									ES		0.70		
									ES		1.00	PID	<1ppm
		1.20							ES		1.20		
	8 2		FILL / SAND: grey and brown; fine; trace sandstone and igneous gravel.		FILL	ND	M		ES		1.30	PID	<1ppm
									ES		1.50		
									ES		1.80	PID	<1ppm
									ES		2.00		
									ES		2.30	PID	<1ppm
									ES		2.50		
	7 3	2.80	FILL / SAND: grey to dark grey; fine; slight hydrocarbon odour.		FILL	ND	M		ES		2.80	PID	53ppm
									ES		3.00		
									ES		3.30	PID	90ppm
									ES		3.50		
	6 4	3.70	SAND: pale grey; fine; slight hydrocarbon odour.				M		ES		3.80	PID	86ppm
									ES		4.00		
									ES		4.10	PID	108ppm
									ES		4.30		
			4.60m-4.80m: dark brown hydrocarbon staining						ES		4.60	PID	953ppm
									ES		4.80		
▼ Free groundwater observed below 5.2m depth 14/08/23 09:00	5 5		5.00m-6.00m: slight hydrocarbon odour and slight sweet odour		AEO	ND			ES		5.00	PID	3719ppm
									ES		5.20		
									ES		5.50	PID	1234ppm
									ES		5.70		
	4 6		From 6.00m: slight hydroarbon odour				W		ES		6.00	PID	35ppm
									ES		6.20		
									ES		6.50	PID	6ppm
									ES		6.70		
	3 7	6.80	Silty SAND: dark grey; fine; medium to high plasticity silt; sulphuric odour.		EST	ND	W		ES		6.80	PID	4ppm
											7.00		
	2 8		Borehole discontinued at 7.00m depth. Target depth achieved.										
	1 9												
	0												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: PT to 5.0m, AD/T to 7.0m.
CASING: Uncased
REMARKS: Material sample PACM1 collected from surface. ACM = asbestos containing material

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334763.2, N:6241638.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH329A
PROJECT No: 219609.01
DATE: 14/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
14/08/23 No Free Groundwater Observed	9.9 / 0.00	FILL / Silty SAND: dark brown; fine to medium; low to medium plasticity silt; with concrete, igneous and sandstone gravel; trace rootlets.		FILL	ND	M		ES		0.10	PID	<1ppm
										0.30		
								ES		0.50	PID	<1ppm
	9.2 / 0.70	FILL / SAND: brown, dark brown and grey; fine; trace ash, concrete and sandstone gravel.								0.70		
								ES		0.80	PID	<1ppm
										1.00		
								ES		1.30	PID	<1ppm
										1.50		
	8.2 / 1.70			FILL	ND	M		ES		1.80	PID	<1ppm
										2.00		
								ES		2.30	PID	1ppm
										2.50		
								ES		2.80	PID	<1ppm
	7.2 / 2.70									3.00		
	6.7 / 3.20	FILL / SAND: dark brown; fine.		FILL	ND	M		ES		3.30	PID	<1ppm
										3.50		
	6.2 / 3.70	SAND: grey-brown; fine.		AEO	ND	M		ES		3.80	PID	<1ppm
										4.00		
	5.5 / 4.40	SAND: dark grey; fine.		AEO	ND	M		* ES		4.50	PID	1ppm
										4.70		
	4.9 / 5.00	Borehole discontinued at 5.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 5.0m.
REMARKS: *Field replicate BD2/20230814 taken from 4.5-4.7m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334769.8, N:6241632.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH329B
PROJECT No: 219609.01
DATE: 14/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
	10	0.00	FILL / Silty SAND: dark brown with grey and orange-brown; fine to medium; low to medium plasticity silt; trace rootlets, ash, igneous and sandstone gravel.		FILL	ND	M		ES	0.10	0.10	PID	<1ppm
									ES	0.50	0.20		
	9	1							ES	1.00	0.50	PID	<1ppm
		1.40	FILL / SAND: brown, dark brown and grey; fine to medium; trace sandstone gravel.						ES	1.50	0.70		
	8	2							ES	2.00	1.00	PID	<1ppm
									ES	2.50	1.20		
	7	3			FILL	ND	M				1.50	PID	<1ppm
											1.60		
	6	4							ES	3.50	2.00	PID	<1ppm
		4.20	FILL / SAND: dark brown and dark grey; fine to medium; with slag, trace concrete.						ES	4.30	2.20	PID	<1ppm
▼					FILL	ND	M				2.50	PID	<1ppm
											2.70		
											3		
									ES	3.50	3.50	PID	<1ppm
											3.70		
											4		
									ES	4.30	4.30	PID	<1ppm
											4.50		
	5	5.00			FILL	ND	w>PL		ES	5.00	5.00	PID	33ppm
		5.10	FILL / CLAY: dark brown; medium to high plasticity; hydrocarbon odour; with sand.								5.10		
			SAND: grey-brown; fine; slight hydrocarbon odour.						ES	5.20	5.20	PID	4ppm
											5.40		
	4	6			AEO	ND	W		ES	5.80	5.80	PID	1ppm
											6.00		
		6.80	SAND: dark grey; fine; slight sulphuric odour.						ES	6.80	6.80	PID	<1ppm
	3	7			EST possibly AEO	ND	W				7.00		
								ES*	ES	7.80	7.80	PID	<1ppm
	2	8									8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.										
	1	9											

Free groundwater observed below 5.0m depth 14/08/23 09:00

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: PT to 5.0m, AD/T to 8.0m.
CASING: Uncased
REMARKS: *Field replicate BD1/20230814 taken from 7.8-8.0m. Base of soil vapour implant installed at 1.2m, bentonite backfill from 1.3-8.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334761.8, N:6241628.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH329C
PROJECT No: 219609.01
DATE: 15/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	10	0.00	FILL / Silty SAND: dark brown and brown; fine to medium; low to medium plasticity silt; trace rootlets, fabric, concrete, igneous and sandstone gravel.		FILL	ND	M		ES		0.10	PID	1ppm
											0.20		
									ES		0.50	PID	1ppm
											0.70		
	9	0.90	FILL / SAND: grey, brown and dark brown; fine to medium; trace slag, asphaltic concrete, igneous and sandstone gravel.		FILL	ND	M		ES		1.00	PID	1ppm
											1.20		
									ES		1.50	PID	2ppm
											1.70		
	8	2							ES		1.90	PID	2ppm
		2.20	FILL / SAND: pale grey to dark grey; fine; trace ash and concrete gravel.		FILL	ND	M				2.10		
									ES		2.30	PID	2ppm
											2.50		
	7	3							ES		2.80	PID	2ppm
											3.00		
									ES		3.30	PID	15ppm
											3.50		
	6	4.00	SAND: pale grey; fine; slight hydrocarbon odour.		AEO	ND	M		ES		3.80	PID	9ppm
											4.00		
									ES		4.10	PID	14ppm
											4.30		
			4.50m-5.00m: hydrocarbon staining						ES		4.60	PID	74ppm
▼ 15/08/23											4.80		
Free groundwater observed below 4.8m depth	5	5					W				5		
									* ES		5.10	PID	46ppm
											5.30		
									ES		5.60	PID	84ppm
	4	6									5.80		
											6		
									ES		6.40	PID	10ppm
		6.70									6.60		
			SAND: dark grey; fine; sulphuric odour.		EST possibly AEO	ND	W		ES		6.80	PID	7ppm
	3	7									7.00		
									ES		7.80	PID	<1ppm
	2	8									8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.										
	1	9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 5.0m, AD/T to 8.0m.
REMARKS: *Field replicate BD1/20230815 taken from 5.1-5.3m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334758.7, N:6241633.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH329D
PROJECT No: 219609.01
DATE: 14/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
	9	0.00	FILL / Silty SAND: dark brown, dark grey and brown; fine to medium; low to medium plasticity silt; with sandstone gravel; trace rootlets, slag, ash and igneous gravel.		FILL	ND	M		ES	0.10	0.10	PID	<1ppm
										0.30	0.30		
									ES	0.50	0.50	PID	<1ppm
										0.70	0.70		
	9	0.80	FILL / SAND: grey-brown and brown; fine; with slag, trace ash and sandstone gravel.		FILL	ND	M		ES	0.90	0.90	PID	<1ppm
	1									1.10	1.10		
									ES	1.40	1.40	PID	1ppm
										1.60	1.60		
	8	1.80	FILL / SAND: grey-brown; fine to medium; trace sandstone gravel.		FILL	ND	M		ES	1.90	1.90		
	2									2.10	2.10	PID	3ppm
									ES	2.40	2.40	PID	9ppm
										2.60	2.60		
	7	2.80	SAND: pale grey; fine; strong hydrocarbon odour, hydrocarbon staining.		AEO	ND	M		ES	2.90	2.90	PID	3392ppm
	3									3.10	3.10		
									ES	3.40	3.40	PID	>5000ppm
										3.60	3.60		
	6												
	4		From 4.40m: no hydrocarbon staining						ES	4.00	4.00	PID	2393ppm
										4.20	4.20		
									ES	4.50	4.50	PID	1449ppm
										4.70	4.70		
▼ 14/08/23 09:00	5												
Free groundwater observed below 5.0m depth									ES	5.00	5.00	PID	860ppm
										5.20	5.20		
	4						W		ES	5.50	5.50	PID	667ppm
										5.70	5.70		
	6		From 6.50m-6.90m: slight hydrocarbon odour						ES	6.00	6.00	PID	60ppm
										6.20	6.20		
									ES	6.50	6.50	PID	4ppm
	3									6.70	6.70		
		6.90	SAND: grey and dark grey; fine; slight sulphuric odour.			ND	W		ES	6.90	6.90	PID	1ppm
			Borehole discontinued at 7.00m depth. Target depth achieved.							7.00			
	2												
	8												
	1												
	9												
	0												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 5.0m, AD/T to 7.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.1 AHD
COORDINATE: E:334780.3, N:6241620.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH330
PROJECT No: 219609.01
DATE: 29/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
29/08/23 No Free Groundwater Observed	10	0	FILL / Silty SAND: dark brown; fine to medium; low to medium plasticity silt; trace rootlets, timber, slag, asphaltic concrete, concrete and sandstone gravel.		FILL	ND	M		ES		0.10	PID	3ppm
											0.30		
									ES		0.50	PID	3ppm
											0.70		
	9	1							ES		1.00	PID	2ppm
											1.20		
									ES		1.50	PID	4ppm
											1.70		
	8	2	From 2.00m: dark brown and yellow-brown						ES		2.00	PID	33ppm
											2.20		
			Borehole discontinued at 2.40m depth. Refusal on possible concrete boulder within fill.										
	7	3											
	6	4											
	5	5											
	4	6											
	3	7											
	2	8											
	1	9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: PT to 2.4m.
CASING: Uncased
REMARKS: Base of soil vapour implant installed at 1.1m, bentonite backfill from 1.2-2.4m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334773.6, N:6241615.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH331
PROJECT No: 219609.01
DATE: 28/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	10	0	FILL / Silty SAND: dark brown; fine; low to medium plasticity silt; with sandstone gravel, trace rootlets, ash and igneous gravel.		FILL	ND	M		ES	0.10	0.10	PID	4ppm	Sand	
										0.30	0.30				
									ES	0.50	0.50	PID	8ppm		
										0.70	0.70				
	9	1							ES	1.00	1.00	PID	7ppm		
										1.20	1.20				
									ES	1.50	1.50	PID	9ppm		
										1.70	1.70				
	8	2	From 2.50m: trace slag, glass, asphaltic concrete and brick fragments, slight hydrocarbon odour						ES	2.00	2.00	PID	14ppm		
										2.20	2.20				
									ES	2.50	2.50	PID	23ppm		
										2.70	2.70				
	7	3	From 3.00m: with metal, fabric and plastic, strong hydrocarbon odour						ES	3.00	3.00	PID	>5000ppm	Bentonite	
										3.20	3.20				
		3.80													
	6	4	FILL / SAND: pale brown and dark brown; fine to medium; strong hydrocarbon odour; trace sandstone gravel.		FILL	ND	M		ES	3.90	3.90	PID	>5000ppm		
										4.10	4.10				
			From 4.70m: dark brown, hydrocarbon staining												
	5	5.00	FILL / Clayey SAND: dark grey; fine; medium to high plasticity clay; strong hydrocarbon odour, dark grey hydrocarbon staining; trace igneous gravel.		FILL	ND	M		ES	4.80	4.80	PID	>5000ppm		
										5.00	5.00				
									ES	5.20	5.20	PID	>5000ppm		
										5.40	5.40				
									ES	5.70	5.70	PID	>5000ppm		
	4	6					W			5.90	5.90				
▼ 28/08/23 09:00 Free groundwater observed below 6.0m depth		6.20	SAND: dark brown; fine; strong hydrocarbon odour.						ES	6.30	6.30	PID	>5000ppm	Sand	
										6.50	6.50				
									ES	6.80	6.80	PID	3864ppm		
	3	7								7.00	7.00				
			From 7.30m: slight hydrocarbon odour, strong sulphuric odour		EST possibly AEO	ND	W		ES	7.30	7.30	PID	2424ppm		
										7.50	7.50				
	2	8							ES	7.80	7.80	PID	1067ppm		
										8.00	8.00				
									ES	8.30	8.30	PID	3460ppm		
										8.50	8.50				
	1	9							ES	8.80	8.80	PID	60ppm		
										9.00	9.00				
			Borehole discontinued at 9.00m depth. Target depth achieved.												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 6.0m, AD/T to 9.0m.
REMARKS: Borehole collapse 7.3-9.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Nil

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 8.9 AHD
COORDINATE: E:334761.7, N:6241587.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH332
PROJECT No: 219609.01
DATE: 29/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
29/08/23 No Free Groundwater Observed	8.9	0.30	FILL / Silty SAND: dark brown; fine to medium; low to medium plasticity silt; trace sandstone and igneous gravel.		FILL	ND	M		ES	0.10 - 0.30	0.10 0.30	PID	5ppm
	8.1	1	FILL / SAND: brown and dark brown; fine to medium; with concrete, sandstone and igneous gravel; trace plastic, fabric, metal, brick fragments and orange resin.		FILL	ND	M		ES	0.40 - 0.60	0.40 0.60	PID	3ppm
			Borehole discontinued at 1.20m depth. Refusal on possible metal plate within fill.						ES	1.00 - 1.20	1.00 1.20	PID	3ppm

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 1.2m.
REMARKS: Base of soil vapour implant installed at 1.1m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 8.8 AHD
COORDINATE: E:334779.9, N:6241581.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH333
PROJECT No: 219609.01
DATE: 29/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
	8	0.00	FILL / Clayey SAND: dark brown and dark grey; fine to medium; low to medium plasticity clay; trace slag, igneous and sandstone gravel.		FILL	ND	M		ES	0.10 - 0.30	0.10	PID	4ppm
									ES	0.50 - 0.70	0.30		
	1		From 1.00m: with brick fragments						ES	1.00 - 1.20	0.50	PID	5ppm
	7	1.90							ES	1.50 - 1.70	0.70		
	2		FILL / Gravelly CLAY: pale grey; low to medium plasticity; fine to medium, sandstone, siltstone and slag gravel.		FILL	ND	M		ES	2.00 - 2.20	1.00	PID	2ppm
		2.30	FILL / SAND: dark grey; fine to medium; with igneous and sandstone gravel, trace plastic.		FILL	ND	M		ES	2.40 - 2.60	1.20		
	6										1.50	PID	4ppm
	3								ES	3.00 - 3.20	1.70		
	5										2.00	PID	10ppm
	4										2.20		
											2.40	PID	12ppm
											2.60		
											3.00	PID	10ppm
											3.20		
											4		
	4	4.50	FILL / SAND: dark brown and dark grey; fine; trace sandstone gravel.		FILL	ND	M		ES	4.50 - 4.70	4.50	PID	10ppm
	5								ES	5.00 - 5.20	4.70		
▼ 29/08/23 0900							W		ES	5.50 - 5.70	5.00	PID	14ppm
Free groundwater observed below 5.5m depth	3	5.70	SAND: pale brown; fine.		EST possibly AEO	ND	W		ES	5.80 - 6.00	5.50	PID	8ppm
	6								ES	6.30 - 6.50	5.70	PID	8ppm
	2								ES	6.80 - 7.00	5.80		
	7										6.00	PID	3ppm
											6.30		
											6.50	PID	<1ppm
											6.80		
											7.00	PID	<1ppm
											7.30		
	1		Borehole discontinued at 7.50m depth. Target depth achieved.						ES	7.30 - 7.50	7.50		
	8												
	0												
	9												
	-1												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: PT to 5.0m, AD/T to 7.5m.
CASING: Uncased
REMARKS: Base of soil vapour implant installed at 1.1m, bentonite backfill from 1.2-7.5m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 8.8 AHD
COORDINATE: E:334789.0, N:6241576.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH334
PROJECT No: 219609.01
DATE: 29/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE
	8	0.00	FILL / SAND: dark brown; fine to medium; trace rootlets, concrete, igneous and sandstone gravel.		FILL	ND	M		ES	0.10–0.30	0.10	PID	2ppm	Sand	
									ES	0.50–0.70	0.50	PID	7ppm		
	1								ES	1.00–1.20	1.00	PID	5ppm		
									ES	1.50–1.70	1.50	PID	20ppm		
	7														
	2		From 2.00m: slight sweet chemical odour						ES	2.00–2.20	2.00	PID	357ppm		
									ES	2.50–2.70	2.50	PID	751ppm		
	6	2.90													
			FILL / Gravelly SAND: pale brown, dark brown and grey; fine to coarse; fine to medium, sandstone and igneous gravel; trace plastic, rubber, fabric, ash, slag. Igneous and sandstone gravel.		FILL	ND	M		ES	3.00–3.20	3.00	PID	284ppm	Bentonite	
	5	3.20	FILL / Silty SAND: brown and dark brown; fine to medium; medium to high plasticity silt; trace igneous and sandstone gravel; slight sweet chemical odour.		FILL	ND	M		ES	3.50–3.70	3.50	PID	9ppm		
	4										4				
									ES	4.50–4.70	4.50	PID	5ppm		
	4														
	5										5				
▼ 29/07/23 09:00 Free groundwater observed below 5.6m depth							W		ES	5.50–5.70	5.50	PID	2ppm	Gravel	
	3	5.90													
			SAND: dark brown; fine; sulphuric odour.		EST possibly AEO	ND	W		ES	6.00–6.20	6.00	PID	5ppm		
									ES	6.30–6.50	6.30	PID	2ppm		
	2								ES	6.80–7.00	6.80	PID	8ppm		
	7														
	1								ES	7.30–7.50	7.30	PID	4ppm		
	8	8.00	Borehole discontinued at 8.00m depth. Target depth achieved.						ES	7.80–8.00	7.80	PID	4ppm		
	0														
	9														
	-1														

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: PT to 6.0m, AD/T to 8.0m.
REMARKS: Borehole collapse 7.5-8.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334623.4, N:6241714.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH335
PROJECT No: 219609.01
DATE: 24/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.17	CONCRETE			NA							
		0.40	FILL / SAND: brown; fine; trace concrete gravel.		FILL	ND	M		ES		0.20	PID	4ppm
											0.40		
			FILL / SAND: pale grey; fine.		FILL	ND	M		ES		0.50	PID	2ppm
											0.70		
	9	1.00	FILL / SAND: dark brown and pale grey; fine to medium; trace ash and sandstone gravel.		FILL	ND	M				1		
									ES		1.10	PID	2ppm
											1.30		
		1.50	SAND: pale grey; fine.										
	8	2							ES		1.70	PID	<1ppm
											1.90		
											2		
									ES		2.70	PID	<1ppm
	7	3					M				2.90		
											3		
									* ES		3.70	PID	<1ppm
	6	4			AEO	ND					3.90		
▼ Free groundwater observed below 4.7m depth 24/08/23 09:00											4		
									* ES		4.70	PID	<1ppm
	5	5									4.90		
											5		
	4	6					W		ES		5.70	PID	<1ppm
											5.90		
											6		
	3	7	Borehole discontinued at 7.00m depth. Target depth achieved.						ES		6.70	PID	<1ppm
											6.90		
	2	8											
	1	9											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ

METHOD: DT to 0.17m, PT to 5.0m, AD/T to 7.0m.
CASING: Uncased

REMARKS: Location inside building. GPS coordinates were estimated using Metromap. Surface level not able to be recorded by dGPS. Field replicate sample BD5/20230824 taken from 3.7-3.9m and BD6/20230824 taken from 4.7-4.9m.

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.7 AHD
COORDINATE: E:334617.8, N:6241731.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH336
PROJECT No: 219609.01
DATE: 24/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
24/08/23 No Free Groundwater Observed	0.10	CONCRETE			NA							
	0.30	FILL / SAND: dark grey; fine to coarse; with igneous gravel; trace timber.		FILL	ND	M		ES		0.20 0.30	PID	2ppm
	0.50	FILL / SAND: pale brown; fine to coarse; trace igneous gravel.		FILL	ND	M		ES		0.40 0.50	PID	3ppm
		FILL / SAND: pale grey; fine to coarse; trace igneous gravel.		FILL	ND	M		ES		0.60 0.70	PID	3ppm
	1.00	FILL / SAND: pale brown; fine to coarse; trace igneous and siltstone gravel. From 1.20m: pale grey		FILL	ND	M		ES		0.90 1.00	PID	4ppm
	1.40	FILL / SAND: pale to dark brown and pale grey; fine to coarse; with igneous and siltstone gravel.		FILL	ND	M		ES		1.10 1.20	PID	3ppm
	2.00	FILL / SAND: brown and dark brown; fine to coarse; trace siltstone gravel.		FILL	ND	M		ES		1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00	PID PID PID PID PID	7ppm 5ppm 3ppm 5ppm 5ppm
	2.70	SAND: pale grey; fine.		AEO	ND	M	*	ES		2.40 2.60 2.70 2.90	PID	4ppm 5ppm
	3	Borehole discontinued at 3.00m depth. Target depth achieved.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Hand tools
METHOD: DT to 0.1m, HA to 3.0m.
REMARKS: *Field replicate BD7/20230824 taken from 2.7-2.9m.

OPERATOR:

LOGGED: NW
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334612.7, N:6241738.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH337
PROJECT No: 219609.01
DATE: 25/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	RESULTS AND REMARKS
		0.17	CONCRETE			NA					0.20	PID	4ppm
		0.40	FILL / SAND: brown and dark brown; fine to coarse; with slag; trace ash, igneous and sandstone gravel.		FILL	ND	M		ES		0.40		
											0.50	PID	2ppm
									ES		0.70		
	9	1	FILL / SAND: brown and pale grey; fine to medium; trace sandstone gravel.		FILL	ND	M				1.00	PID	3ppm
									ES		1.20		
		1.40	FILL / SAND: dark brown and pale grey; fine to medium; trace slag and sandstone gravel.		FILL	ND	M				1.50	PID	7ppm
	8	2							ES		1.70		
											2.00	PID	4ppm
									ES		2.20		
		2.30	SAND: pale grey; fine.								2.40	PID	4ppm
									ES		2.60		
	7	3									2.80	PID	<1ppm
									ES		3.00		
							M						
	6	4									3.80	PID	<1ppm
									ES		4.00		
▼ Free groundwater below 4.9m depth 25/08/23 09:00											4.80	PID	<1ppm
	5	5			AEO	ND			ES		5.00		
											5.80	PID	<1ppm
	4	6	From 6.50m: becoming grey, possibly estuarine origin				W		ES		6.00		
											6.80	PID	<1ppm
	3	7							* ES		7.00		
											7.80	PID	<1ppm
	2	8							* ES		8.00		
			Borehole discontinued at 8.00m depth. Target depth achieved.										
	1	9											
	0												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.17m, PT to 6.0m, AD/T to 8.0m.
REMARKS: *Field replicate BD3/20230825 taken from 6.8-7.0m and BD4/20230825 taken from 7.8-8.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49 Stephen Road, Banksmeadow

SURFACE LEVEL: 9.9 AHD
COORDINATE: E:334597.0, N:6241746.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH338
PROJECT No: 219609.01
DATE: 25/08/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS	BACKFILL	WELL PIPE
		0.17	CONCRETE			NA									
			FILL / SAND: brown; fine to medium; trace slag and sandstone gravel.		FILL	ND	M		ES	0.20–0.40	0.20	PID	4ppm	Sand	
									ES	0.50–0.70	0.40	PID	2ppm		
									ES	1.00–1.20	0.50	PID	3ppm		
									ES	1.50–1.70	0.70	PID	4ppm		
		2.00	SAND: pale grey; fine.						ES	2.10–2.30	1.00	PID	1ppm		
									ES	2.80–3.00	1.20	PID	2ppm		
							M		ES	3.80–4.00	1.50	PID	<1ppm	Bentonite	
Free groundwater below 5.3m depth 25/08/23 0900			From 5.30m: slight hydrocarbon odour		AEO	ND			ES	4.80–5.00	1.70	PID	<1ppm		
									ES	5.80–6.00	2	PID	25ppm	Sand	
			From 6.70m: becoming grey, possibly estuarine origin				W		ES	6.80–7.00	2.10	PID	8ppm		
								ES*	ES	7.80–8.00	2.30	PID	7ppm		
		8.00	Borehole discontinued at 8.00m depth. Target depth achieved.								2.80	PID	2ppm		
											3.00				
											3.80	PID	<1ppm		
											4.00				
											4.80	PID	<1ppm		
											5.00				
											5.80	PID	25ppm		
											6.00				
											6.80	PID	8ppm		
											7.00				
											7.80	PID	7ppm		
											8.00				
											9				

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.17m, PT to 6.0m, HSA to 8.0m.
REMARKS: *Field replicate BD1/20230825 taken from 7.8-8.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 10.0 AHD
COORDINATE: E:334542.2, N:6241740.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH339
PROJECT No: 219609.01
DATE: 25/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^) / DENSITY.(^)	MOISTURE		REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
		0.18	CONCRETE			NA						0.20	PID	4ppm
			FILL / SAND: dark brown and pale grey; fine to medium; trace ceramic and sandstone gravel.		FILL	ND	M			ES		0.40		
										ES		0.50	PID	3ppm
		0.90										0.70		
	9		FILL / SAND: pale yellow-brown; fine to medium; trace sandstone gravel.		FILL	ND	M			ES		1.00	PID	2ppm
												1.20		
		1.50	SAND: pale grey and yellow; fine.							ES		1.60	PID	2ppm
	8	2										1.80		
												2		
										ES		2.30	PID	1ppm
												2.50		
	7	3								ES		2.80	PID	<1ppm
												3.00		
							M							
	6	4								ES		3.80	PID	<1ppm
												4.00		
					AEO	ND								
	5	5								* ES		4.80	PID	<1ppm
▼ Free groundwater observed below 5.5m depth 28/08/23 09:00												5.00		
	4	6								ES		5.80	PID	<1ppm
												6.00		
							W							
	3	7								ES		6.80	PID	4ppm
												7.00		
	2	8	Borehole discontinued at 8.00m depth. Target depth achieved.							* ES		7.80	PID	3ppm
												8.00		
	1	9												

NOTES: (#) Soil origin is "probable" unless otherwise stated. (^) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
OPERATOR: Matrix Drilling
LOGGED: PJ
METHOD: DT to 0.18m, PT to 6.0m, AD/T to 8.0m.
CASING: Uncased
REMARKS: *Field replicate BD2/20230828 taken from 4.8-5.0m and BD3/20230828 taken from 7.8-8.0m.

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 12.9 AHD
COORDINATE: E:334502.9, N:6241783.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH340
PROJECT No: 219609.01
DATE: 28/08/23 - 25/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
28/08/23 No Free Groundwater Observed	12 / 0.28	CONCRETE			NA					0.30	PID	4ppm
		FILL / SAND: brown; fine to medium; trace roots and sandstone gravel.		FILL	ND	M		ES		0.50		
	0.70	FILL / Gravelly SAND: dark brown; fine to medium; fine to medium, igneous gravel; with slag.		FILL	ND	M		ES		0.80	PID	4ppm
	1.00	FILL / SAND: pale grey and brown; fine; trace roots.		FILL	ND	M		ES		1.00		
	11 / 2							ES		1.10	PID	1ppm
	2.10	FILL / SAND: pale grey; fine; trace roots. From 2.40m: no roots		FILL	ND	M		ES		1.30		
								ES		1.60	PID	3ppm
	10 / 3							ES		1.80		
	3.10	FILL / SAND: dark brown; fine.		FILL	ND	M		ES		2		
	3.50	SAND: pale grey; fine.		AEO	ND	M		ES		2.30	PID	<1ppm
	9 / 4							ES		2.50		
								ES		2.80	PID	<1ppm
								ES		3.00		
								ES		3.20	PID	2ppm
								ES		3.40		
								ES		3.60	PID	<1ppm
								ES		3.80		
	8 / 5							ES		4		
								ES		4.60	PID	<1ppm
								ES		4.80		
								ES		5		
	7 / 6	Borehole discontinued at 6.00m depth. Target depth achieved.						ES		5.60	PID	<1ppm
								ES		5.80		
	6 / 7											
	5 / 8											
	4 / 9											
	3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.28m, PT to 6.0m.
REMARKS:

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

BOREHOLE LOG

CLIENT: ESR Australia
PROJECT: Proposed Industrial Development
LOCATION: 49-61 Stephen Road, Banksmeadow

SURFACE LEVEL: 12.0 AHD
COORDINATE: E:334512.8, N:6241642.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: BH341
PROJECT No: 219609.01
DATE: 28/08/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
28/08/23 No Free Groundwater Observed	12 / 0.20	CONCRETE			NA							
	11 / 1 / 1.10	FILL / SAND: dark brown; fine to medium; trace slag, igneous and sandstone gravel.		FILL	ND	M		ES		0.20 0.40	PID	3ppm
								ES		0.70 0.90	PID	4ppm
	10 / 2	FILL / SAND: pale grey and brown; fine; trace ash and sandstone gravel.		FILL	ND	M		ES		1.20 1.40	PID	5ppm
								ES		1.70 1.90	PID	2ppm
	9 / 3 / 3.10	SAND: pale grey; fine.		AEO	ND	M		ES		2.30 2.50	PID	<1ppm
								ES		2.80 3.00	PID	<1ppm
	8 / 4							ES		3.20 3.40	PID	2ppm
								ES		3.80 4.00	PID	<1ppm
	7 / 5							ES		4.80 5.00	PID	<1ppm
	6 / 6							* ES		5.80 6.00	PID	<1ppm
	5 / 7	Borehole discontinued at 6.00m depth. Target depth achieved.										
	4 / 8											
	3 / 9											
	2											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: Geoprobe
METHOD: DT to 0.2m, PT to 6.0m.
REMARKS: *Field replicate BD1/20230828 taken from 5.8-6.0m.

OPERATOR: Matrix Drilling

LOGGED: PJ
CASING: Uncased

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

Terminology, Symbols and Abbreviations

November 2023

Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style XW. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example providing a description of the strength of a concrete pavement	NA

Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

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Soil Descriptions

Terminology
Symbols
Abbreviations

March 2024

Introduction

All materials which are not considered to be "in-situ rock" are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:

The "classification" comprises a two character "group symbol" providing a general summary of dominant soil characteristics. The "name" summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either "fine grained" (also known as "cohesive" behaviour) or "coarse grained" ("non cohesive" behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as "oversize"	
Cobble	63 - 200		
Gravel[1]	2.36 - 63	Coarse	>65%
Sand[1]	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

[1] – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer "component proportions" below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a "Sandy CLAY", this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a "primary", "secondary", or "minor" component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition[1]	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor[2]	Present in the soil, but not significant to its engineering properties	All other components	All other components

[1] As defined in AS1726-2017 6.1.4.4

[2] In the detailed material description, minor components are split into two further sub-categories. Refer "identification of minor components" below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, "INTERBEDDED Silty CLAY AND SAND".

Soil Descriptions

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component [1]	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

[1] – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type		Particle size (mm)
Gravel	Coarse	19 - 63
	Medium	6.7 - 19
	Fine	2.36 – 6.7
Sand	Coarse	0.6 - 2.36
	Medium	0.21 - 0.6
	Fine	0.075 - 0.21

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code NDF, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example (VS).

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as "extremely weathered material" in reports and by the abbreviation code XWM on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than 'very low' as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Fluvial	Deposited by channel fill and overbank (natural levee, crevasse splay or flood basin)	FLV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

The presence of particles considered to be "oversize" may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with "MIXTURE OF".

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Rock Strength

Rock strength is defined by the unconfined compressive strength, and it refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects.

The Point Load Strength Index $I_{s(50)}$ is commonly used to provide an estimate of the rock strength and site specific correlations should be developed to allow UCS values to be determined. The point load strength test procedure is described by Australian Standard AS4133.4.1-2007. The terms used to describe rock strength are as follows:

Strength Term	Unconfined Compressive Strength (MPa)	Point Load Index[1] $I_{s(50)}$ MPa	Abbreviation Code
Very low	0.6 - 2	0.03 - 0.1	VL
Low	2 - 6	0.1 - 0.3	L
Medium	6 - 20	0.3 - 1.0	M
High	20 - 60	1 - 3	H
Very high	60 - 200	3 - 10	VH
Extremely high	>200	>10	EH

[1] Rock strength classification is based on UCS. The UCS to $I_{s(50)}$ ratio varies significantly for different rock types and specific ratios may be required for each site. The point load Index ranges shown above are as suggested in AS1726 and should not be relied upon without supporting evidence.

The following abbreviation codes are used for soil layers or seams of material "within rock" but for which the equivalent UCS strength is less than 0.6 MPa.

Scenario	Abbreviation Code
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The properties of the material encountered over this interval are described in the "Description of Strata" and soil properties columns.	SOIL
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The prominence of the material is such that it can be considered to be a seam (as defined in Table 22 of AS1726-2017) and the properties of the material are described in the defect column.	SEAM

Degree of Weathering

The degree of weathering of rock is classified as follows:

Weathering Term	Description	Abbreviation Code
Residual Soil[1]	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.	RS
Extremely weathered[1]	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible	XW
Highly weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching or may be decreased due to deposition of weathering products in pores.	HW
Moderately weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MW
Slightly weathered	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.	SW
Fresh	No signs of decomposition or staining.	FR
Note: If HW and MW cannot be differentiated use DW (see below)		
Distinctly weathered	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching or may be decreased due to deposition of weathered products in pores.	DW

[1] The parent rock type, of which the residual/extremely weathered material is a derivative, will be stated in the description (where discernible).

Degree of Alteration

The degree of alteration of the rock material (physical or chemical changes caused by hot gasses or liquids at depth) is classified as follows:

Term	Description	Abbreviation Code
Extremely altered	Material is altered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.	XA
Highly altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is changed by alteration. Some primary minerals are altered to clay minerals. Porosity may be increased by leaching or may be decreased due to precipitation of secondary materials in pores.	HA
Moderately altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MA
Slightly altered	Rock is slightly discoloured but shows little or no change of strength from fresh rock	SA
Note: If HA and MA cannot be differentiated use DA (see below)		
Distinctly altered	Rock strength usually changed by alteration. The rock may be highly discoloured, usually by staining or bleaching. Porosity may be increased by leaching or may be decreased due to precipitation of secondary minerals in pores.	DA

Degree of Fracturing

The following descriptive classification apply to the spacing of natural occurring fractures in the rock mass. It includes bedding plane partings, joints and other defects, but excludes drilling breaks. These terms are generally not required on investigation logs where fracture spacing is presented as a histogram, and where used are presented in an unabbreviated format.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with occasional fragments
Fractured	Core lengths of 30-100 mm with occasional shorter and longer sections
Slightly Fractured	Core lengths of 300 mm or longer with occasional sections of 100-300 mm
Unbroken	Core contains very few fractures

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$\text{RQD \%} = \frac{\text{cumulative length of 'sound' core sections > 100 mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or stronger. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e., drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

These terms may be used to describe the spacing of bedding partings in sedimentary rocks. Where used, these terms are generally presented in an unabbreviated format

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Defect Descriptions

Defect Type

Term	Abbreviation Code
Bedding plane	B
Cleavage	CL
Crushed seam	CS
Crushed zone	CZ
Drilling break	DB
Decomposed seam	DS
Drill lift	DL
Extremely Weathered seam	EW
Fault	F
Fracture	FC
Fragmented	FG
Handling break	HB
Infilled seam	IS
Joint	JT
Lamination	LAM
Shear seam	SS
Shear zone	SZ
Vein	VN
Mechanical break	MB
Parting	P
Sheared Surface	S

Rock Defect Orientation

Term	Abbreviation Code
Horizontal	H
Vertical	V
Sub-horizontal	SH
Sub-vertical	SV

Rock Defect Coating

Term	Abbreviation Code
Clean	CN
Coating	CT
Healed	HE
Infilled	INF
Stained	SN
Tight	TI
Veneer	VNR

Rock Defect Infill

Term	Abbreviation Code
Calcite	CA
Carbonaceous	CBS
Clay	CLAY
Iron oxide	FE
Manganese	MN
Pyrite	Py
Secondary material	MS
Silt	M
Quartz	Qz
Unidentified material	MU

Rock Defect Shape/Planarity

Term	Abbreviation Code
Curved	CU
Discontinuous	DIS
Irregular	IR
Planar	PR
Stepped	ST
Undulating	UN

Rock Defect Roughness

Term	Abbreviation Code
Polished	PO
Rough	RF
Smooth	SM
Slickensided	SL
Very rough	VR

Defect Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

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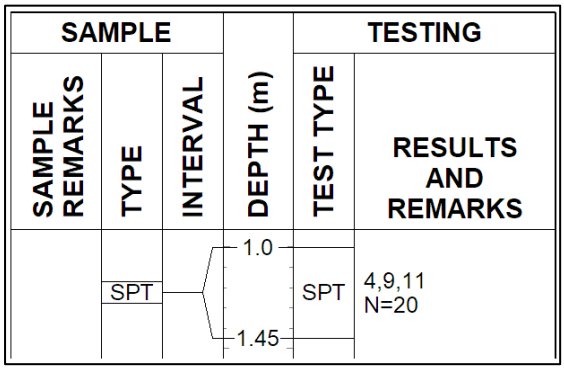
Sampling, Testing and Excavation Methodology

Terminology
Symbols
Abbreviations

March 2024

Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:



Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Acid Sulfate sample	ASS
Bulk sample	B
Core sample	C
Disturbed sample	D
Environmental sample	ES
Gas sample	G
Piston sample	P
Sample from SPT test	SPT
Undisturbed tube sample	U[1]
Water sample	W
Material Sample	MT
Core sample for unconfined compressive strength testing	UCS

[1] – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y =x blows for y mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS

Field and laboratory testing (continued)

Test Type	Code
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(_)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150

Groundwater Observations

▷	seepage/inflow
▽	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Direct Push	DP
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD[1]
Air Track	AT
Diatube	DT[1]
Hand auger	HA[1]
Hand tools (unspecified)	HAND
Existing exposure	X
Hollow flight auger	HSA[1]
HQ coring	HQ3
HMLC series coring	HMLC
NMLC series coring	NMLC
NQ coring	NQ3
PQ coring	PQ3
Predrilled	PD
Push tube	PT[1]
Ripping tyne/ripper	R
Rock roller	RR[1]
Rock breaker/hydraulic hammer	EH
Sonic drilling	SON[1]
Mud/blade bucket	MB[1]
Toothed bucket	TB[1]
Vibrocore	VC[1]
Vacuum excavation	VE
Wash bore (unspecified bit type)	WB[1]

[1] – numeric suffixes indicate tool diameter/width in mm

Douglas PARTNERS

Appendix I2

CPT Results

CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

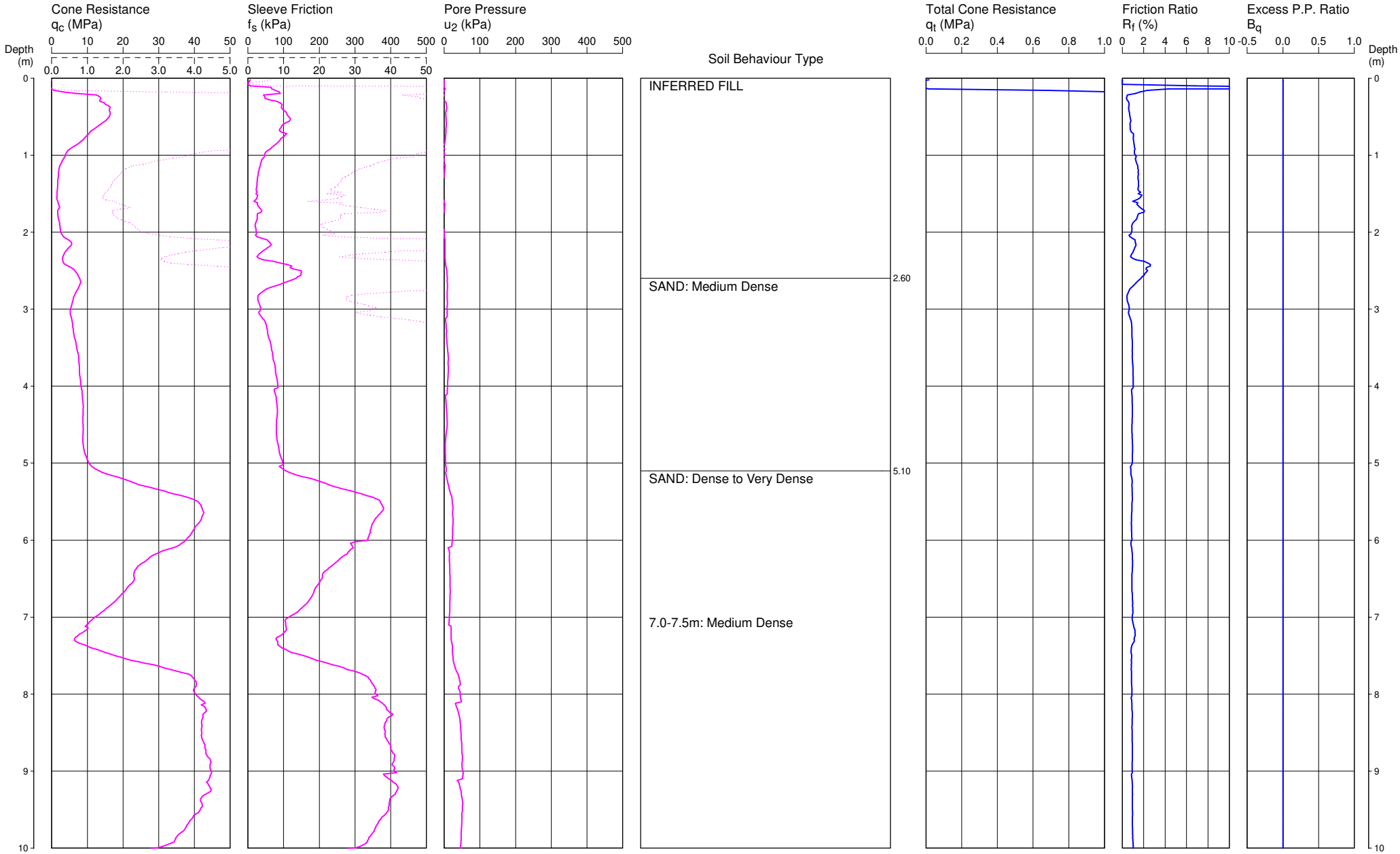
REDUCED LEVEL: 10.0

COORDINATES: 334537.3E 6241775.7N GDA2020

CPT101

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVERTY DENSE SAND. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: I:\2 DESIGN\2 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT101.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

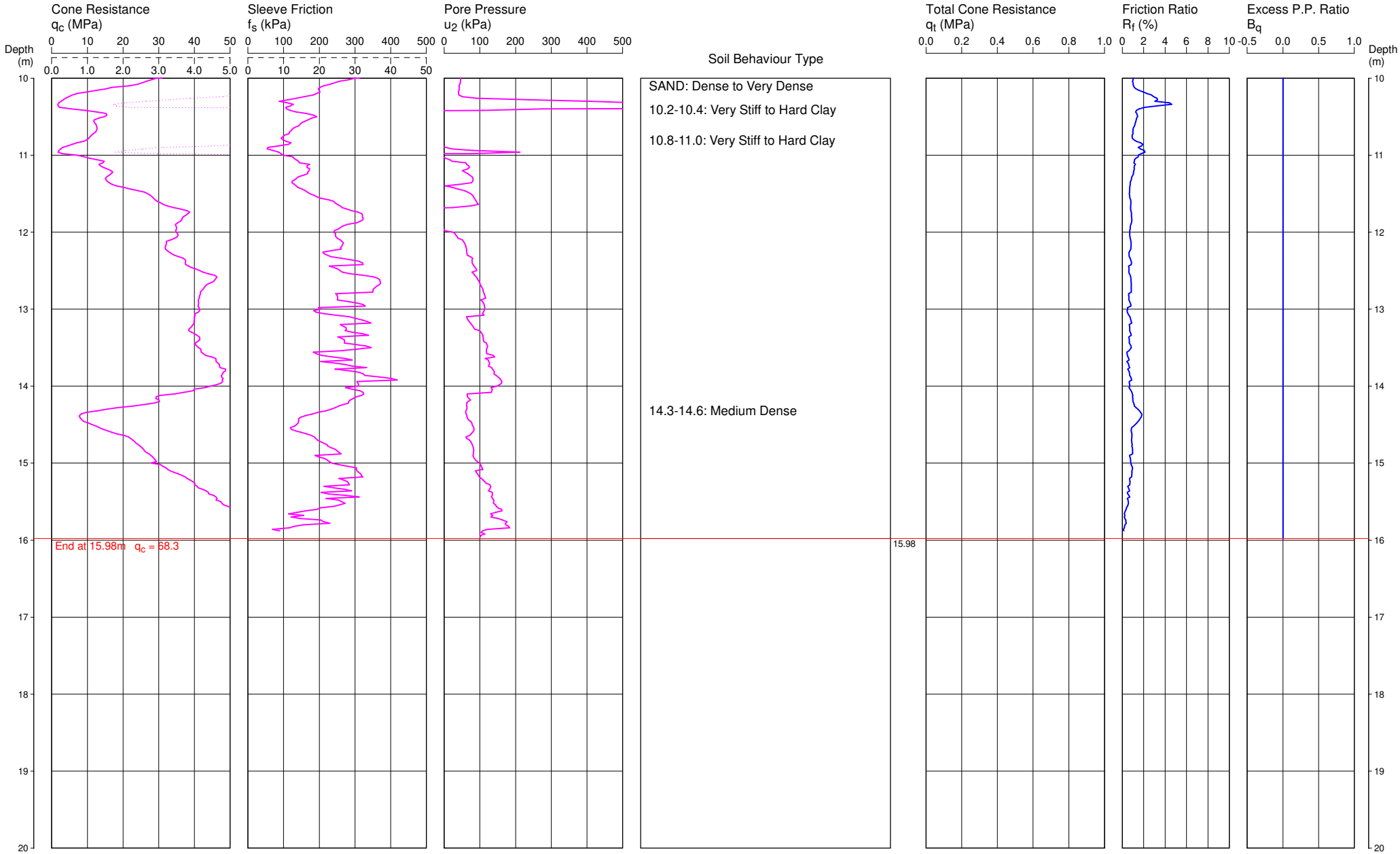
REDUCED LEVEL: 10.0

COORDINATES: 334537.3E 6241775.7N GDA2020

CPT101

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVETY 2 DENSE SAND. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: I:\2021\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT101.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

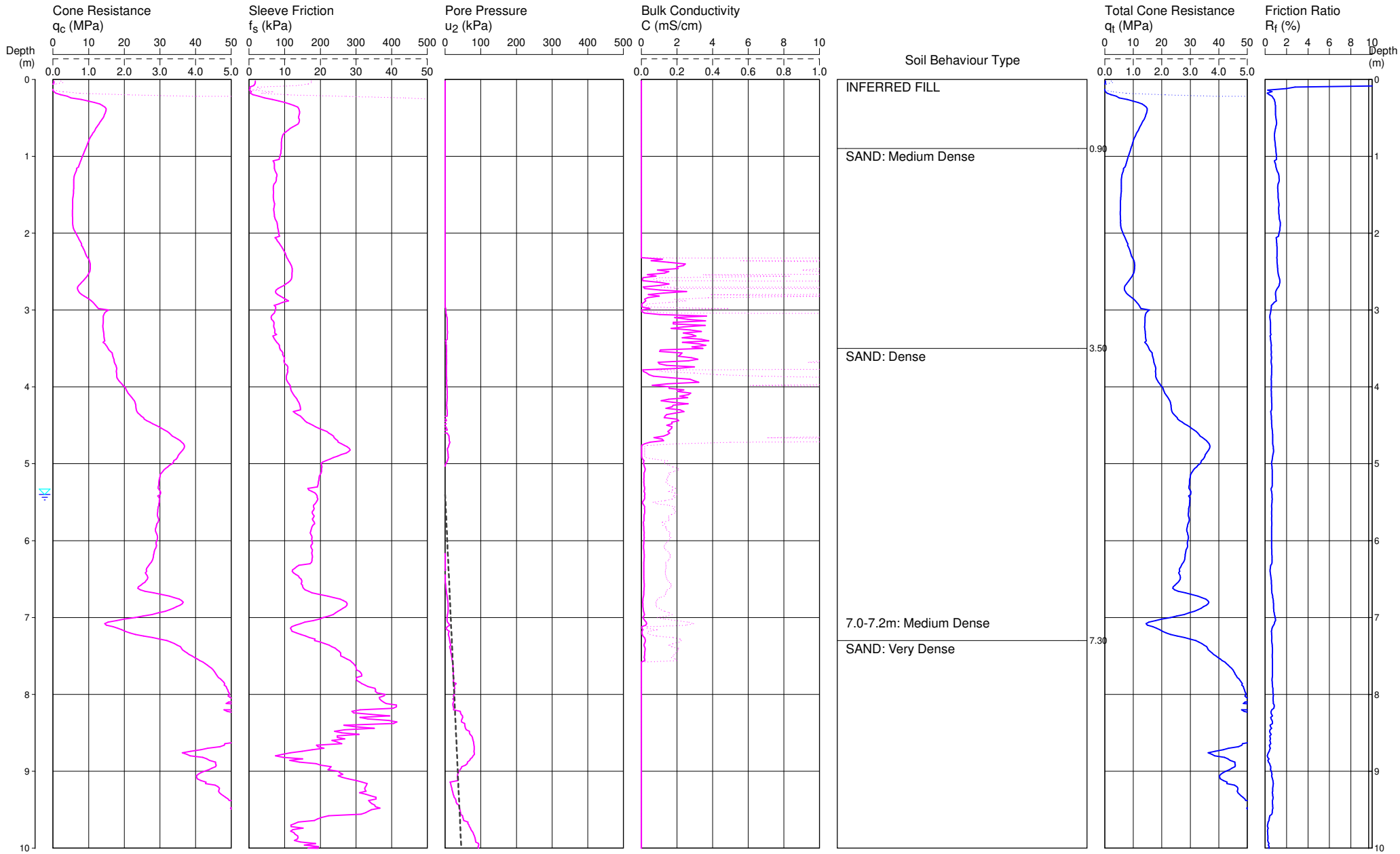
REDUCED LEVEL: 10.2

COORDINATES: 334508.0E 6241742.4N GDA2020

CPT102

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.13M. TEST DISCONTINUED DUE TO BENDING RIVER 2 DENSE SAND. GROUNDWATER OBSERVED AT 5.4M AFTER WITHDRAWAL OF RODS.

File: I:\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT102.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 5.40m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

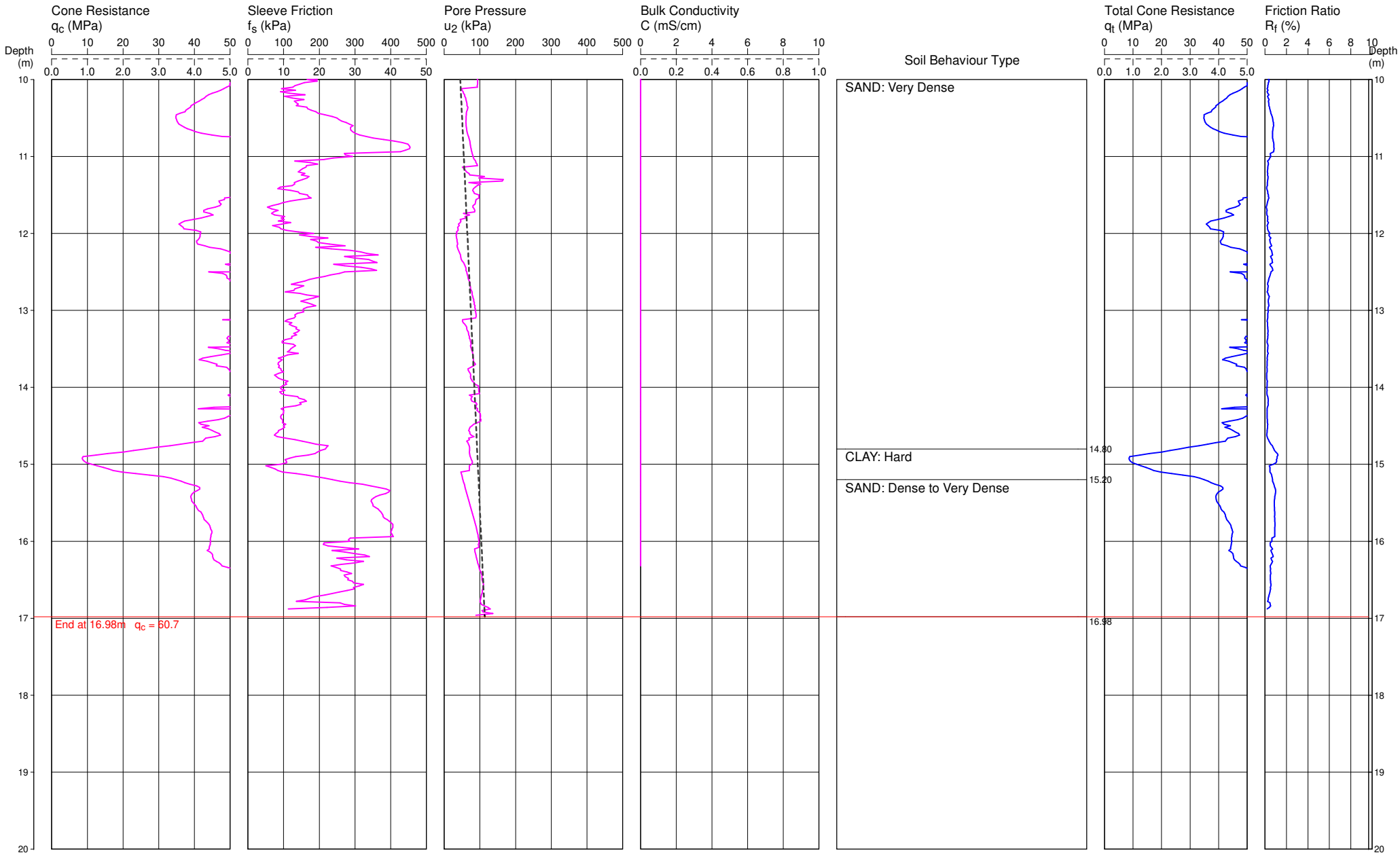
REDUCED LEVEL: 10.2

COORDINATES: 334508.0E 6241742.4N GDA2020

CPT102

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.13M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DENSE SAND. File: P:\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT102.CP5
GROUNDWATER OBSERVED AT 5.4M AFTER WITHDRAWAL OF RODS

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 5.40m depth (assumed)

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

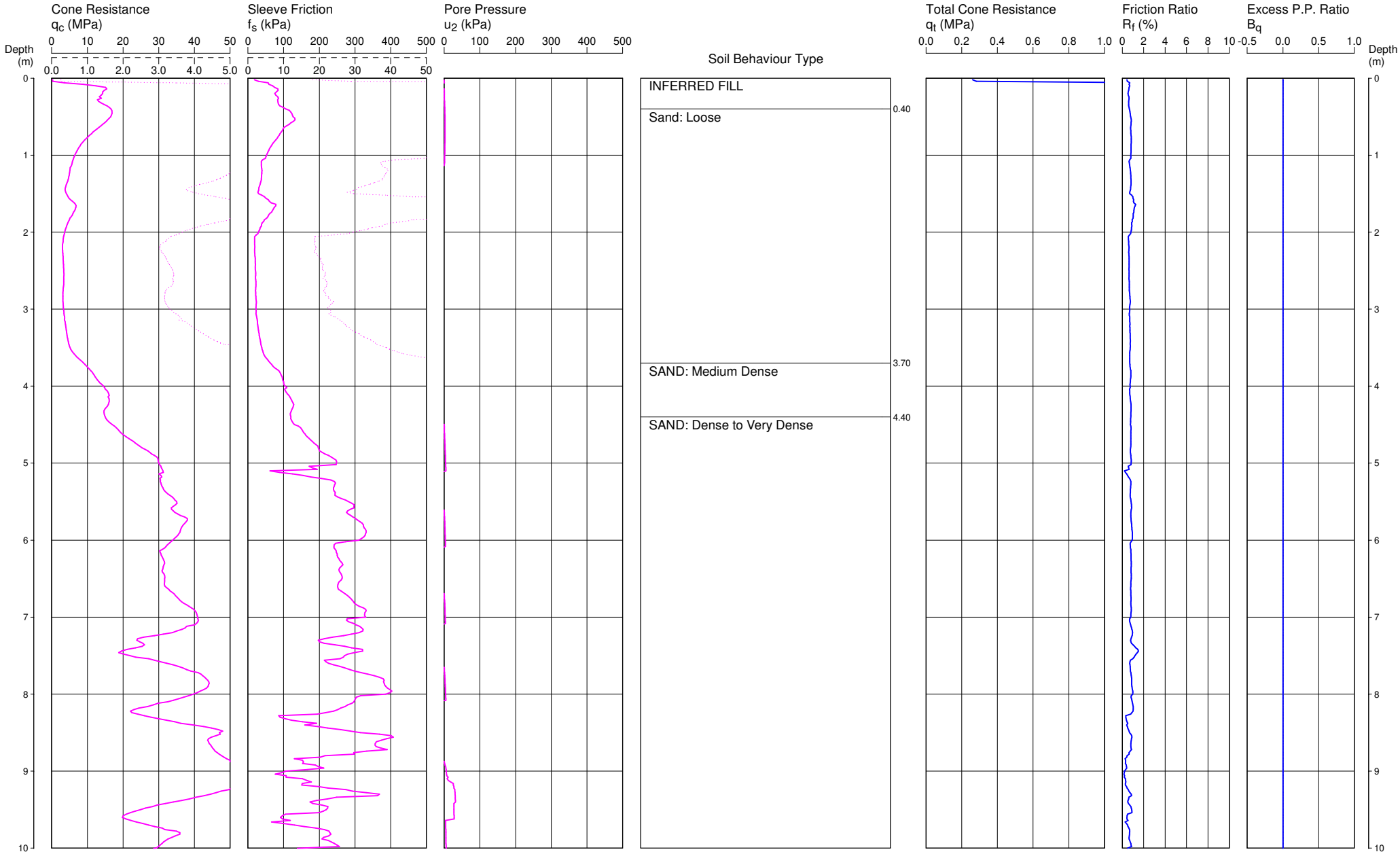
REDUCED LEVEL: 10.0

COORDINATES: 334521.6E 6241649.2N GDA2020

CPT103

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: ASPHALTIC CONCRETE TO 0.03M. TEST DISCONTINUED DUE TO REFUSAL ON VERY DENSE SANDS. HOLE COLLAPSED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 Banksmeadow, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT103.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

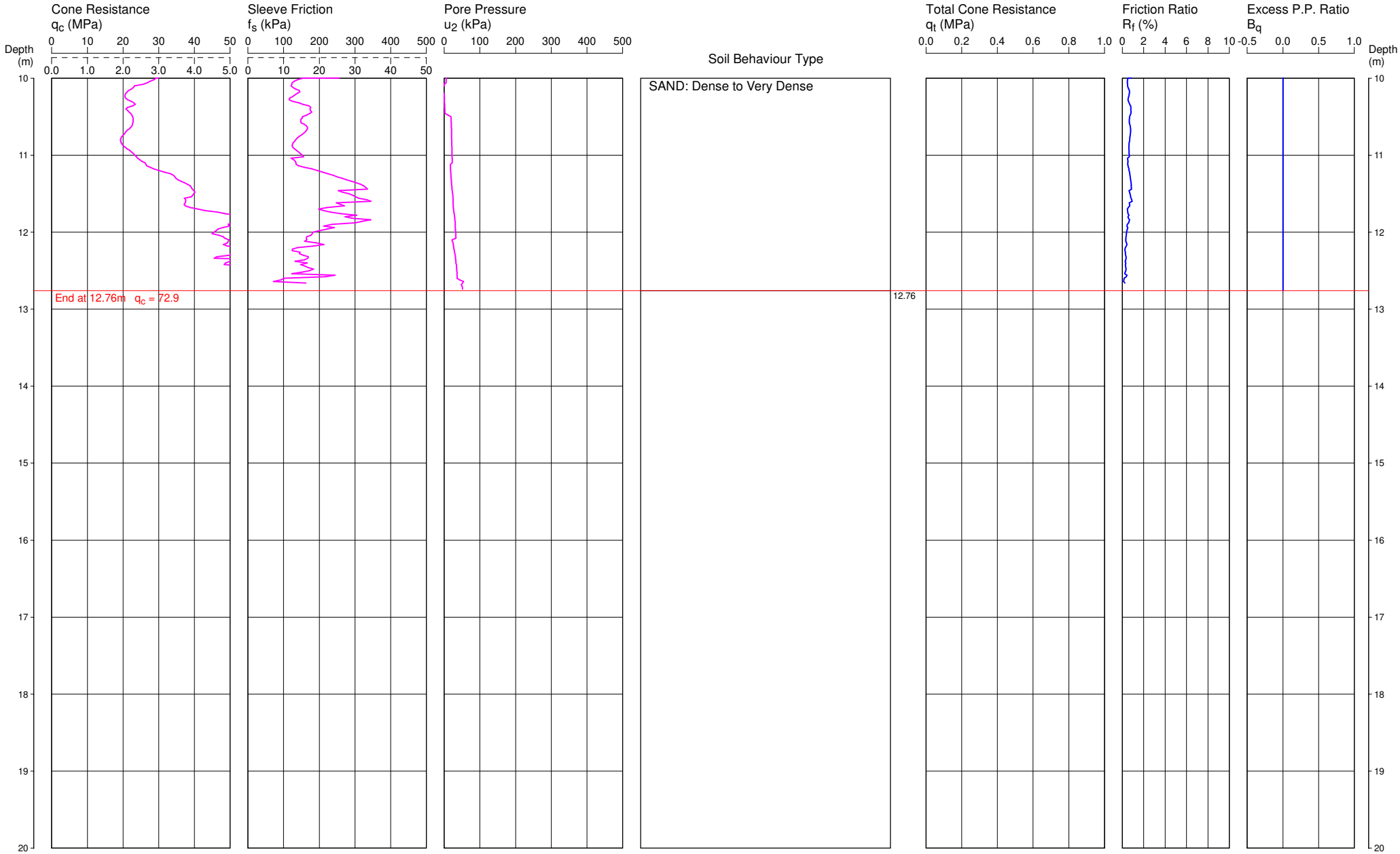
REDUCED LEVEL: 10.0

COORDINATES: 334521.6E 6241649.2N GDA2020

CPT103

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: ASPHALTIC CONCRETE TO 0.03M. TEST DISCONTINUED DUE TO REFUSAL. HOLE COLLAPSED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: N:\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT103.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

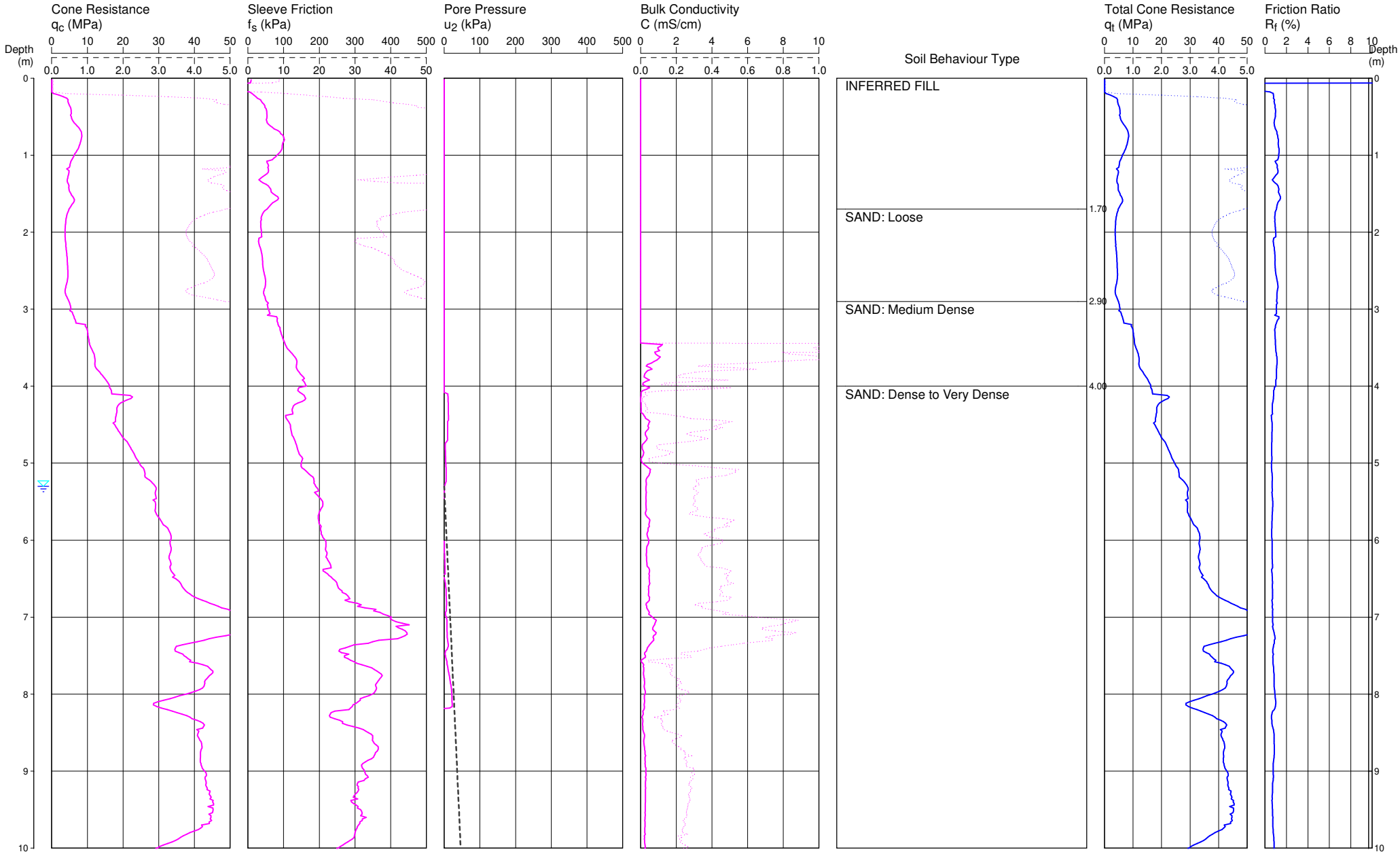
REDUCED LEVEL: 10.0

COORDINATES: 334542.3E 6241691.6N GDA2020

CPT104

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.18M. TEST DISCONTINUED DUE TO BENDING RIVER 2 DENSE SAND. GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: I:\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT104.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

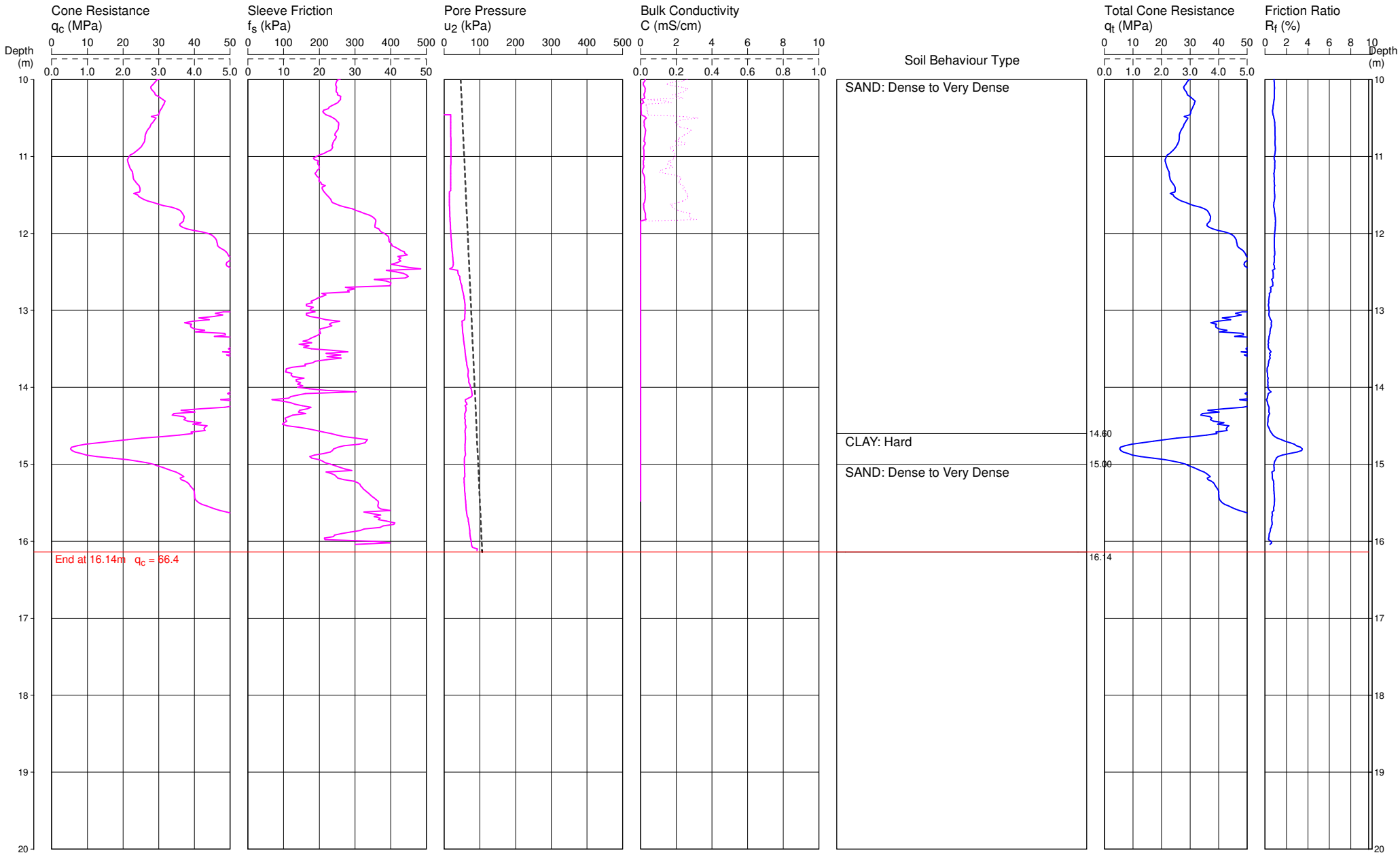
REDUCED LEVEL: 10.0

COORDINATES: 334542.3E 6241691.6N GDA2020

CPT104

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.18M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DENSE SAND. File: P:\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT104.CP5
GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

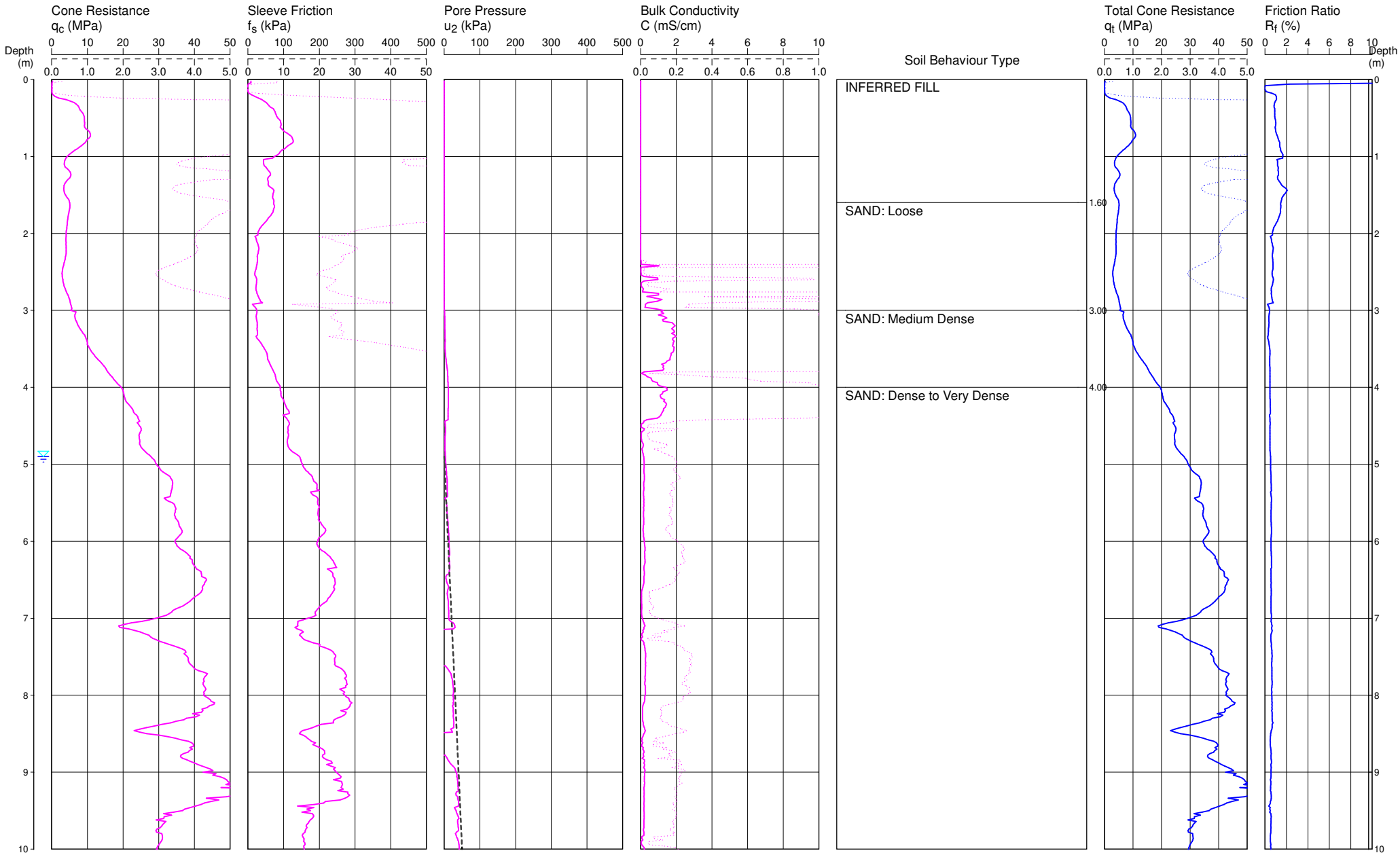
REDUCED LEVEL: 10.0

COORDINATES: 334590.6E 6241759.8N GDA2020

CPT105

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO ROD BOWING.
GROUNDWATER OBSERVED AT 4.9M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT105.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 4.90m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

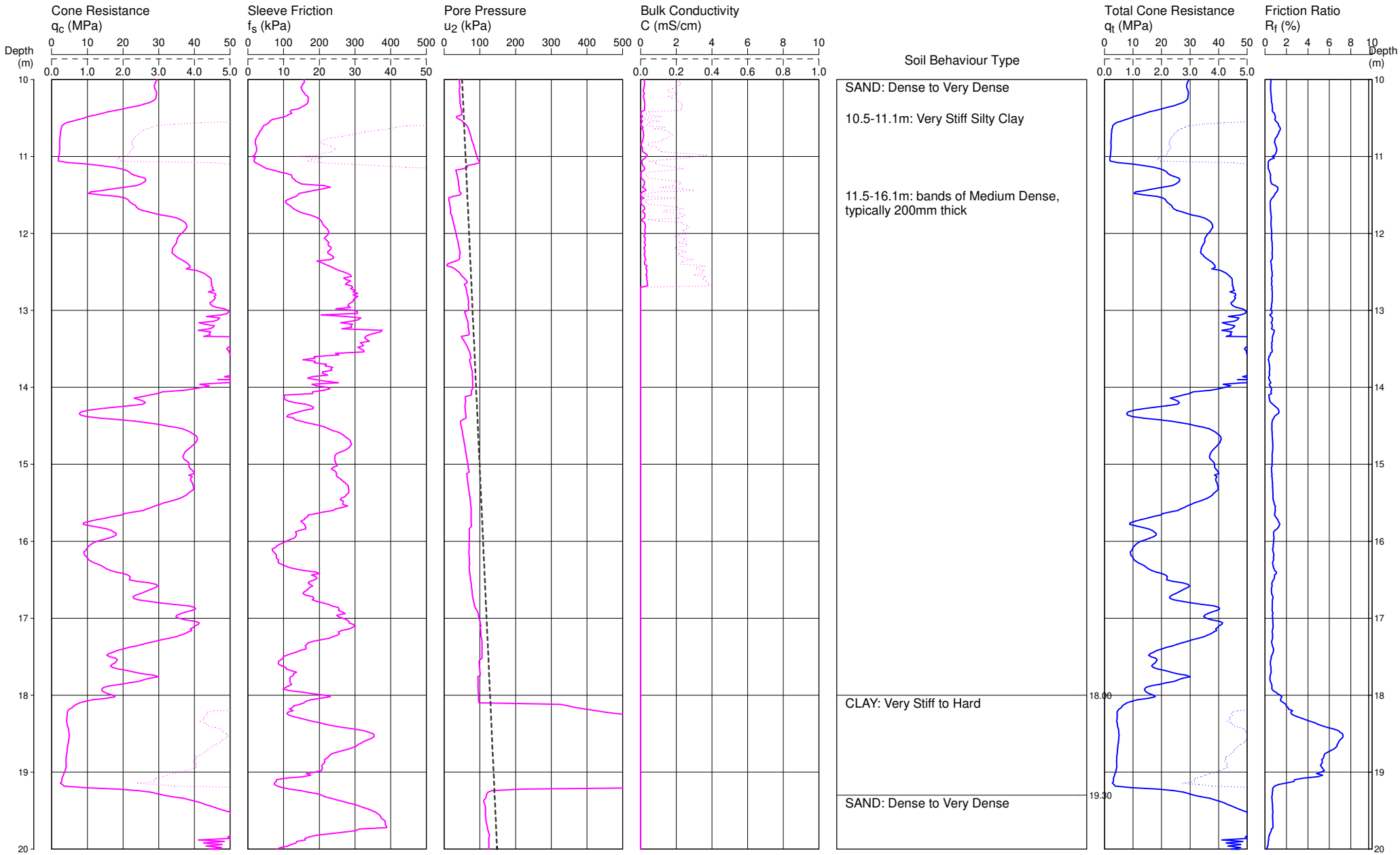
REDUCED LEVEL: 10.0

COORDINATES: 334590.6E 6241759.8N GDA2020

CPT105

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO ROD BOWING. GROUNDWATER OBSERVED AT 4.9M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT105.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 4.90m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

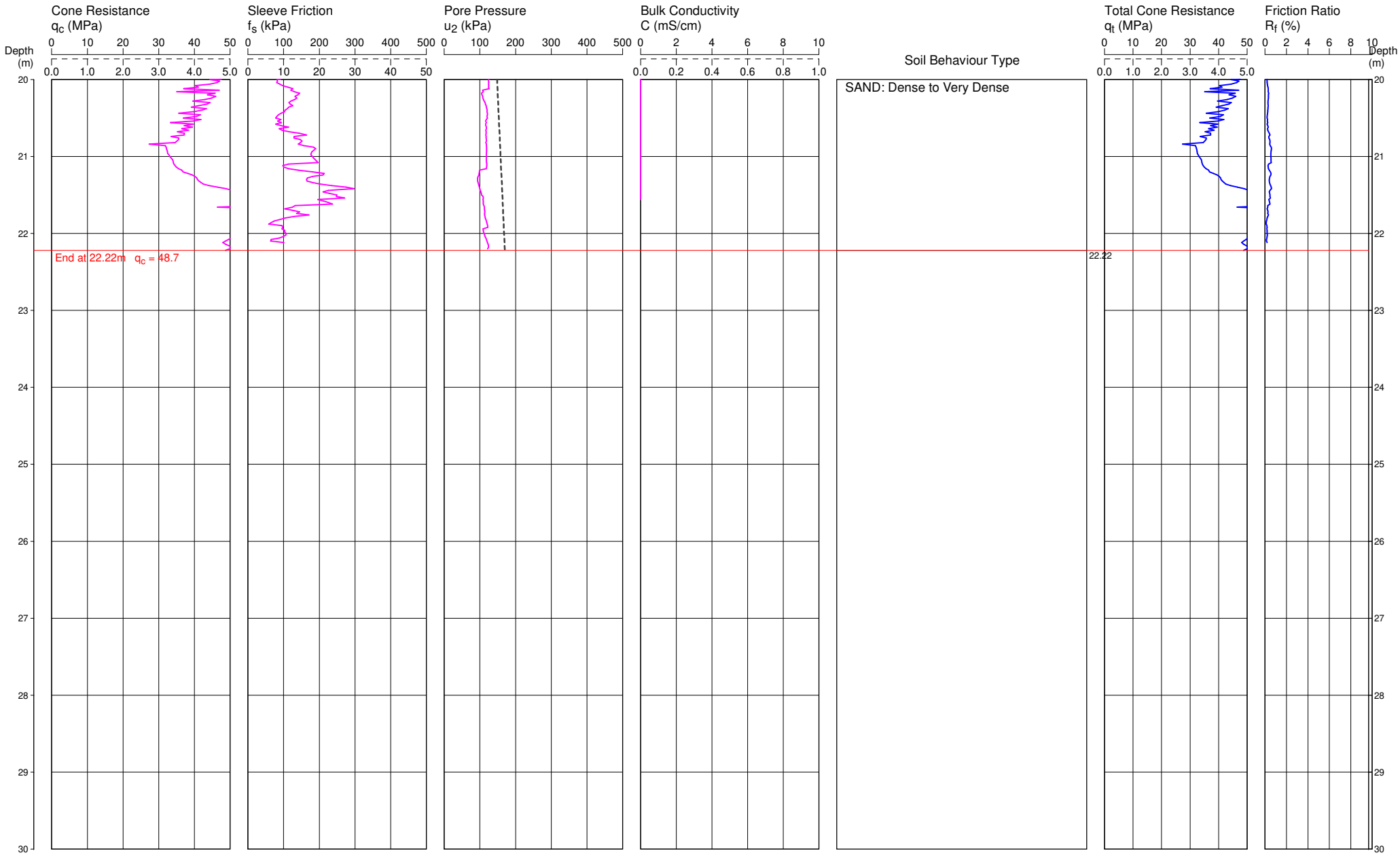
REDUCED LEVEL: 10.0

COORDINATES: 334590.6E 6241759.8N GDA2020

CPT105

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO ROD BOWING. GROUNDWATER OBSERVED AT 4.9M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT105.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 4.90m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

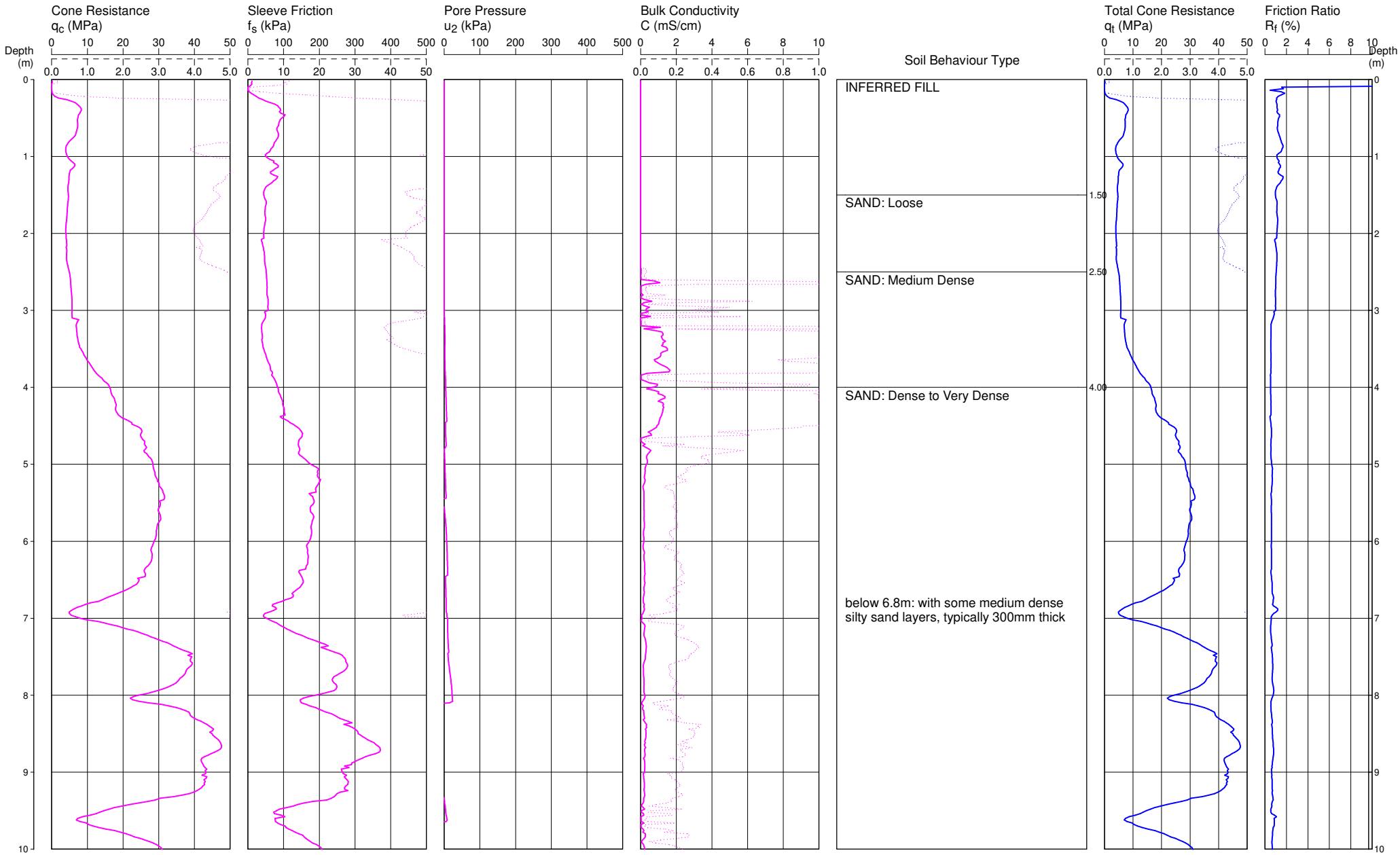
REDUCED LEVEL: 10.0

COORDINATES: 334584.3E 6241707.0N GDA2020

CPT106

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DENSE SAND. HOLE COLLAPSED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: T:\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT106.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

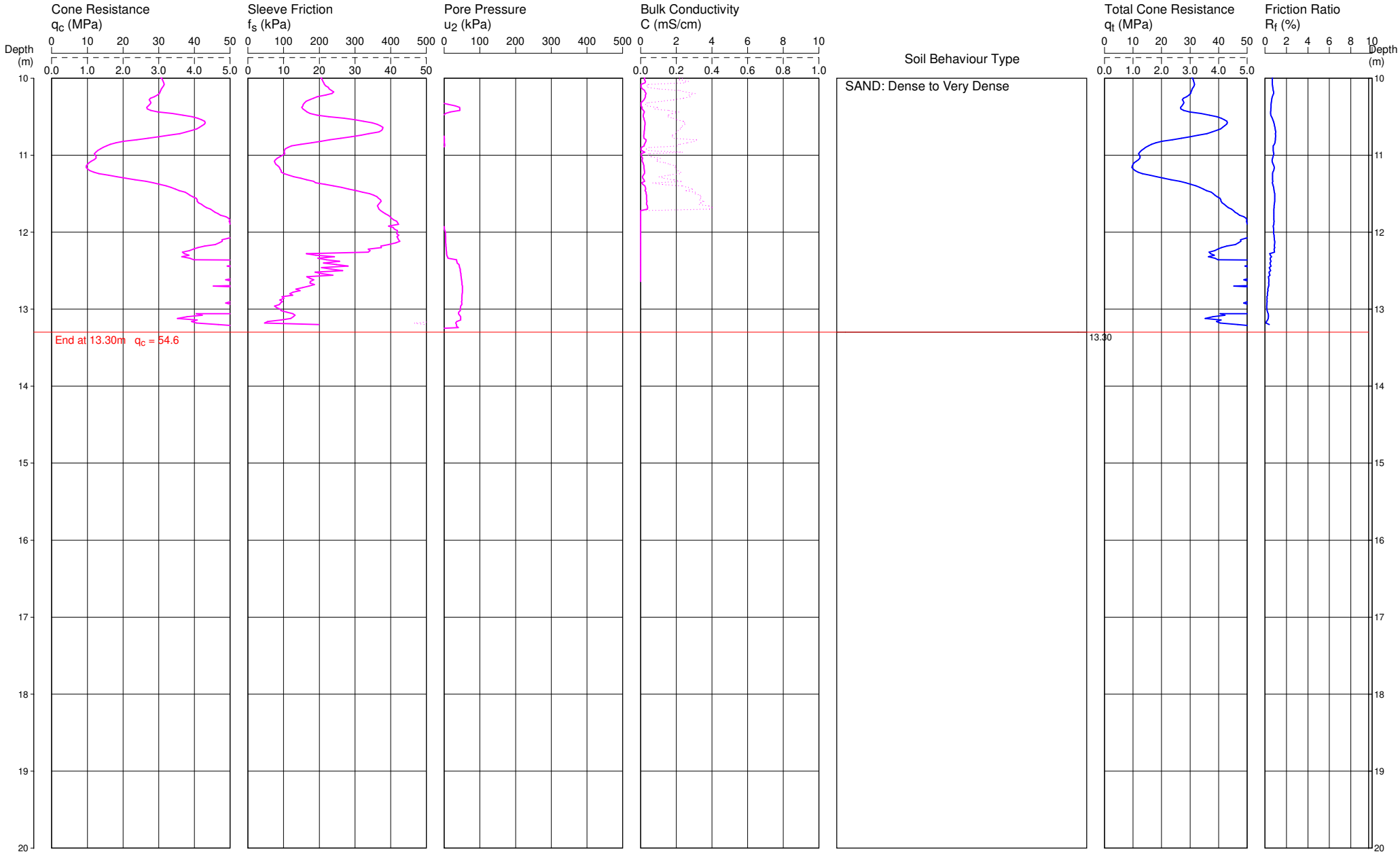
REDUCED LEVEL: 10.0

COORDINATES: 334584.3E 6241707.0N GDA2020

CPT106

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DENSE SAND.
HOLE COLLAPSED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: I:\2021\219609.02\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT106.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

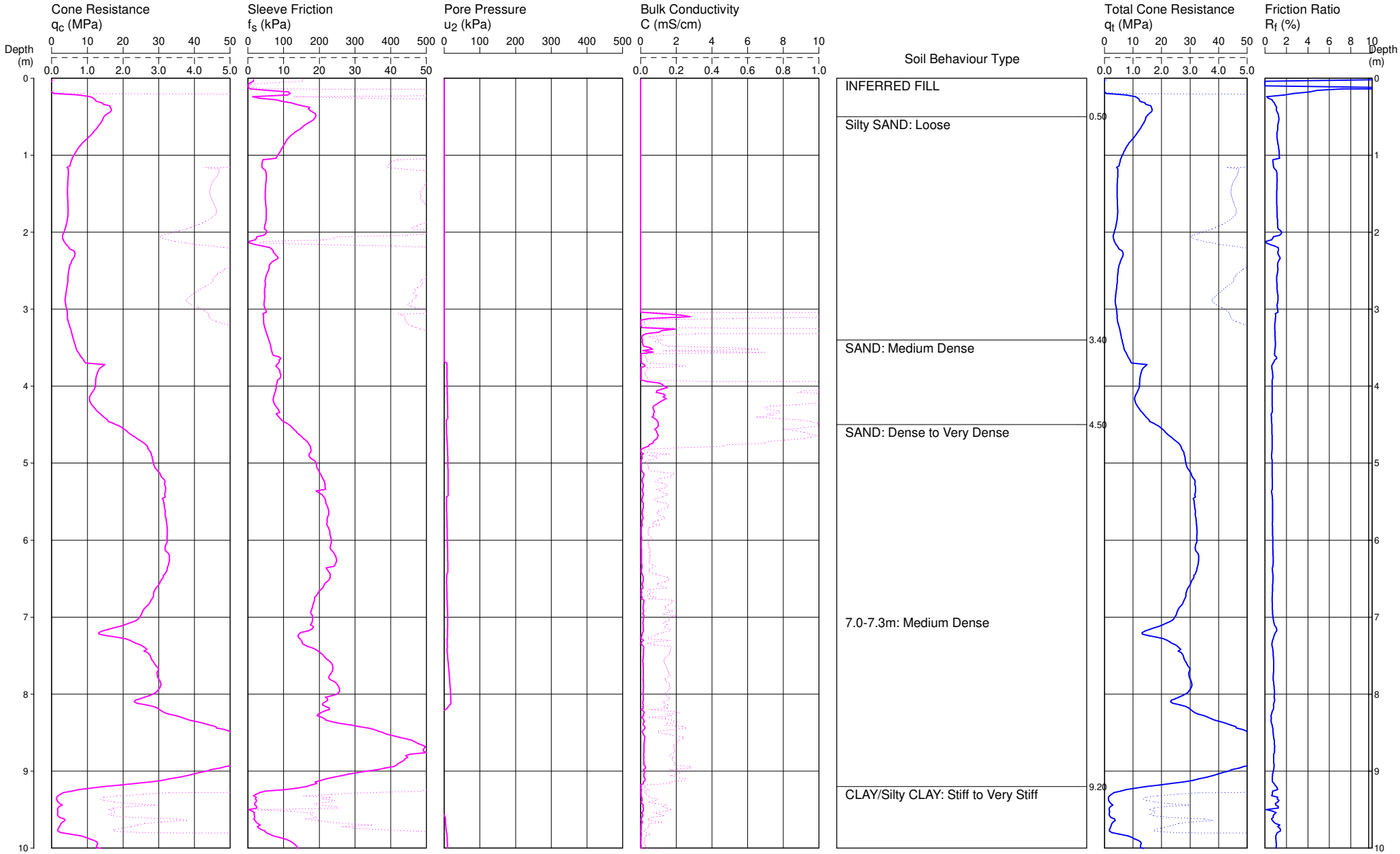
REDUCED LEVEL: 9.9

COORDINATES: 334565.3E 6241634.2N

CPT107

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.16M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DESIGN2 SAN... **File:** ...BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT107.CP5
HOLE COLLAPSED AT 5.3M AFTER WITHDRAWAL OF RODS. **Cone ID:** 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

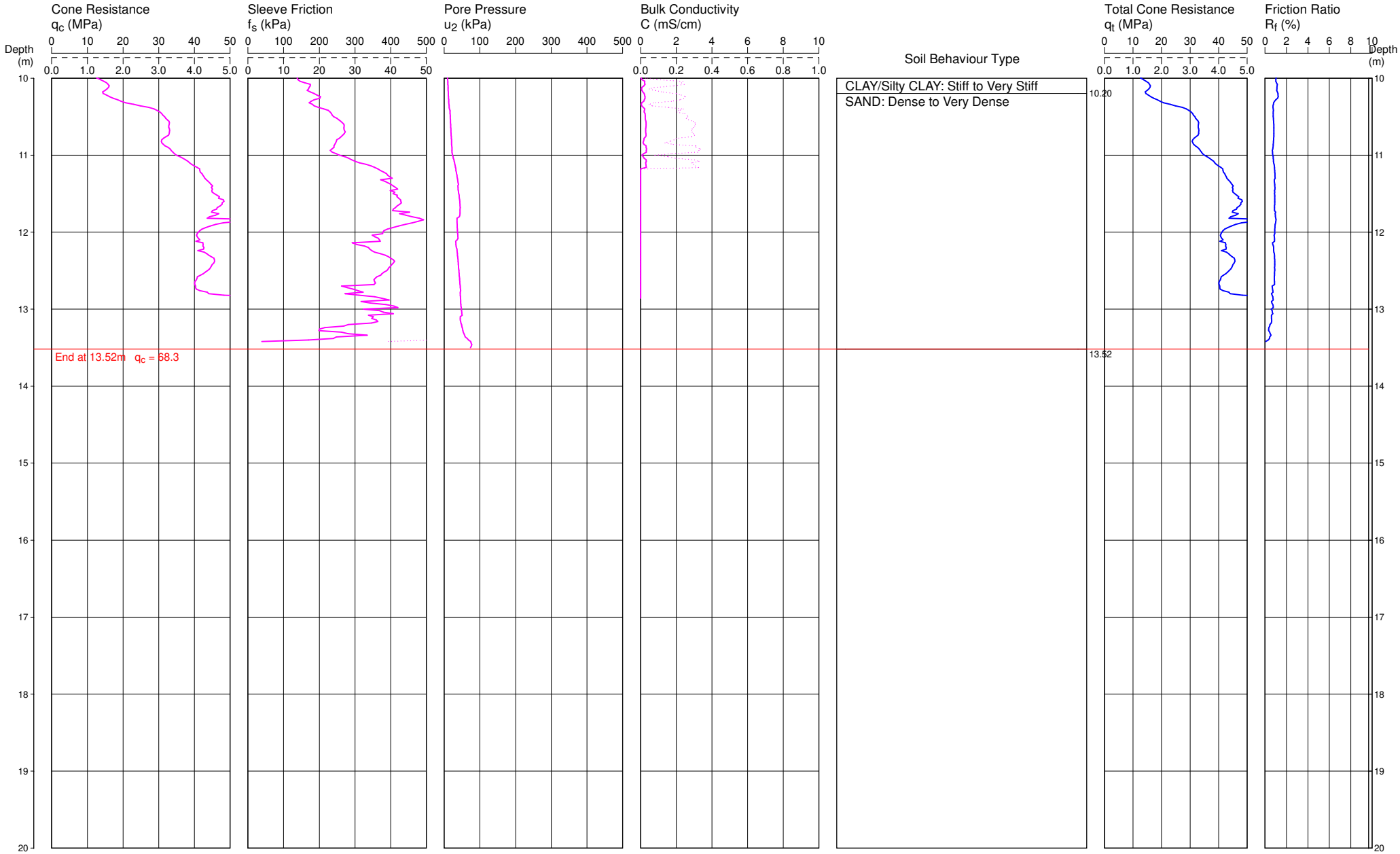
REDUCED LEVEL: 9.9

COORDINATES: 334565.3E 6241634.2N

CPT107

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.16M. TEST DISCONTINUED DUE TO BENDING RIVETS. HOLE COLLAPSED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: ER2 DESIGN 2 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT107.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

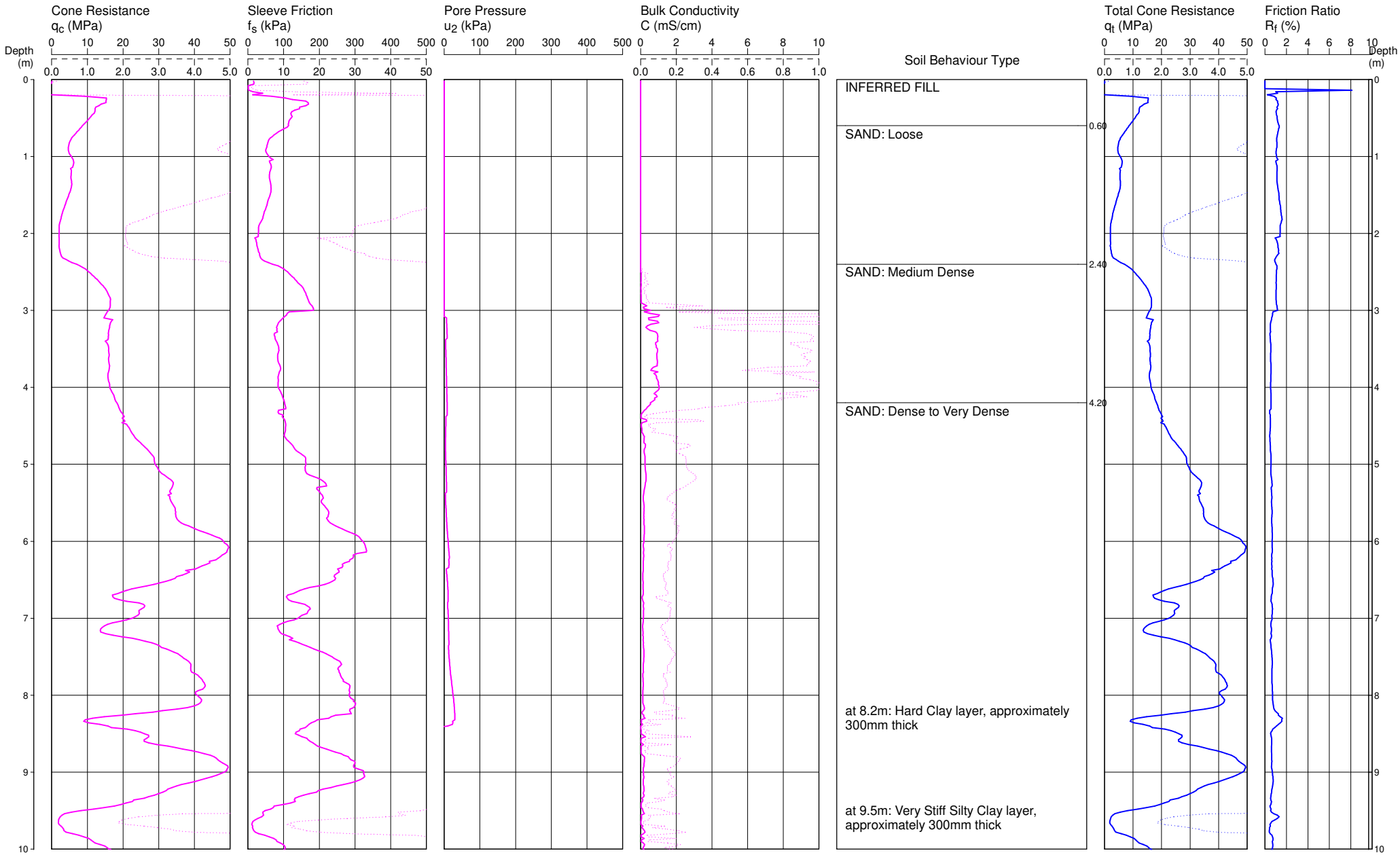
REDUCED LEVEL: 10.0

COORDINATES: 334640.0E 6241753.8N GDA2020

CPT108

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.2M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. HOLE COLLAPSED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT108.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

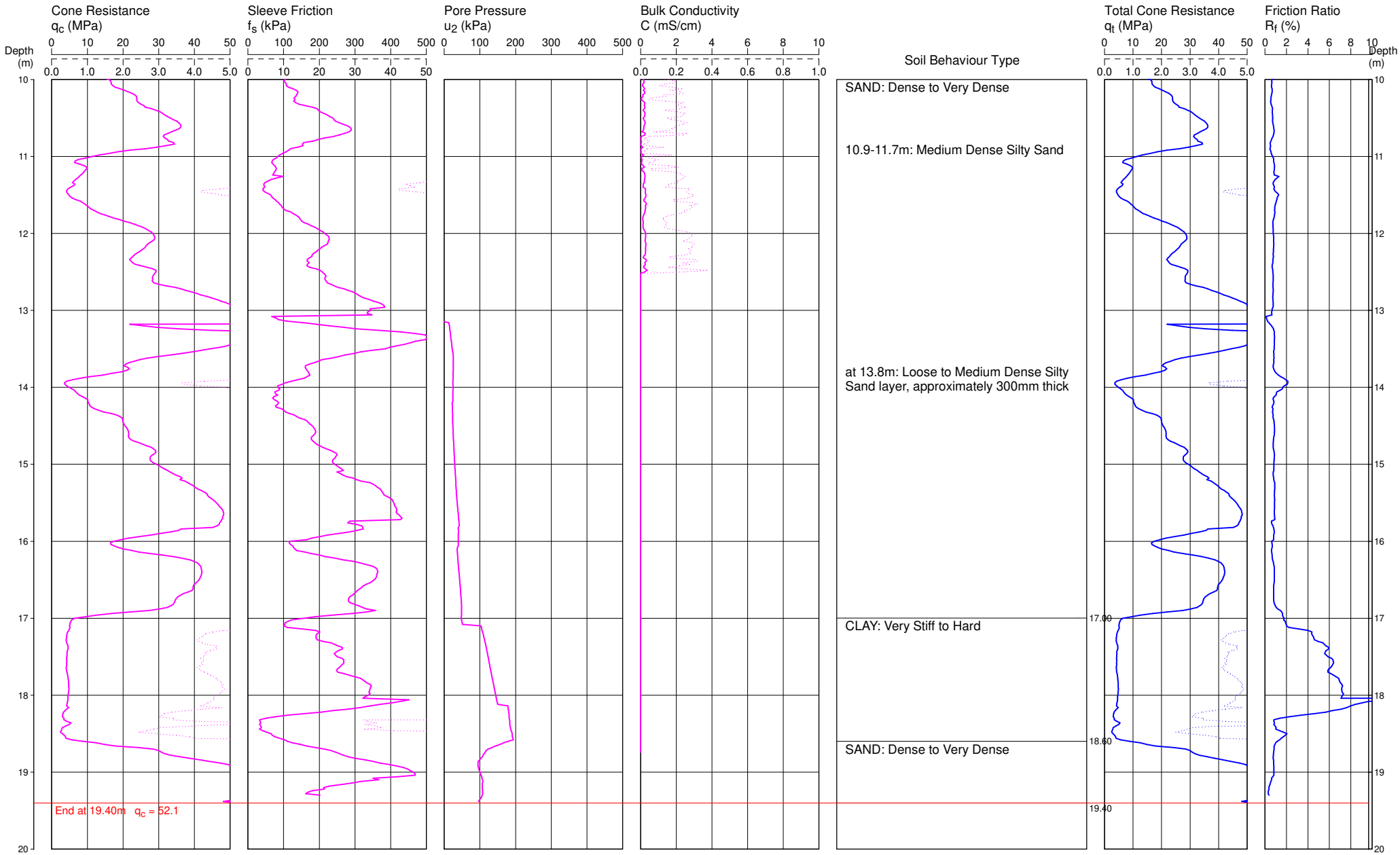
REDUCED LEVEL: 10.0

COORDINATES: 334640.0E 6241753.8N GDA2020

CPT108

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.2M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION.
HOLE COLLAPSED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: 219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT108.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

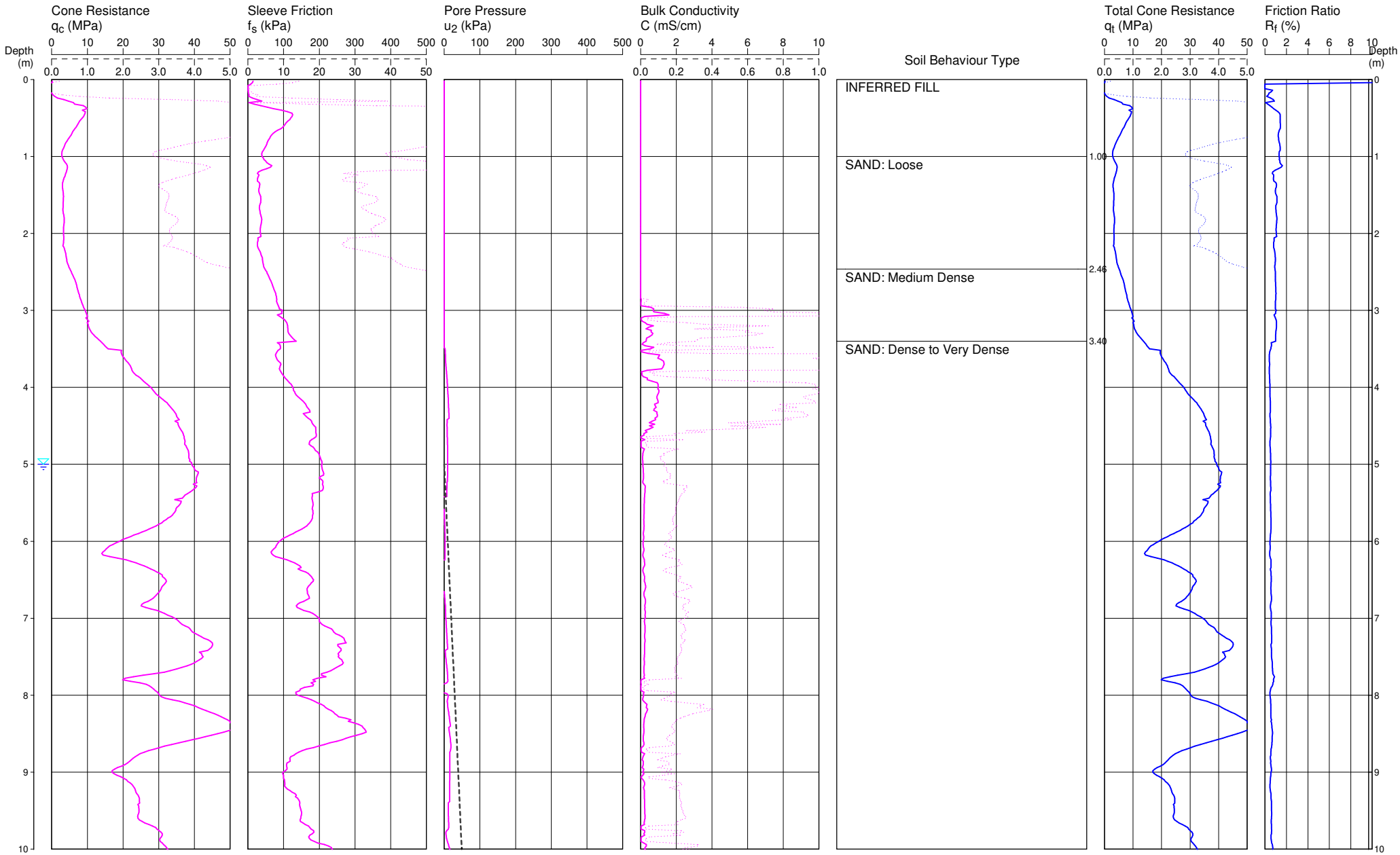
REDUCED LEVEL: 9.9

COORDINATES: 334635.9E 6241700.8N GDA2020

CPT109

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT109.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

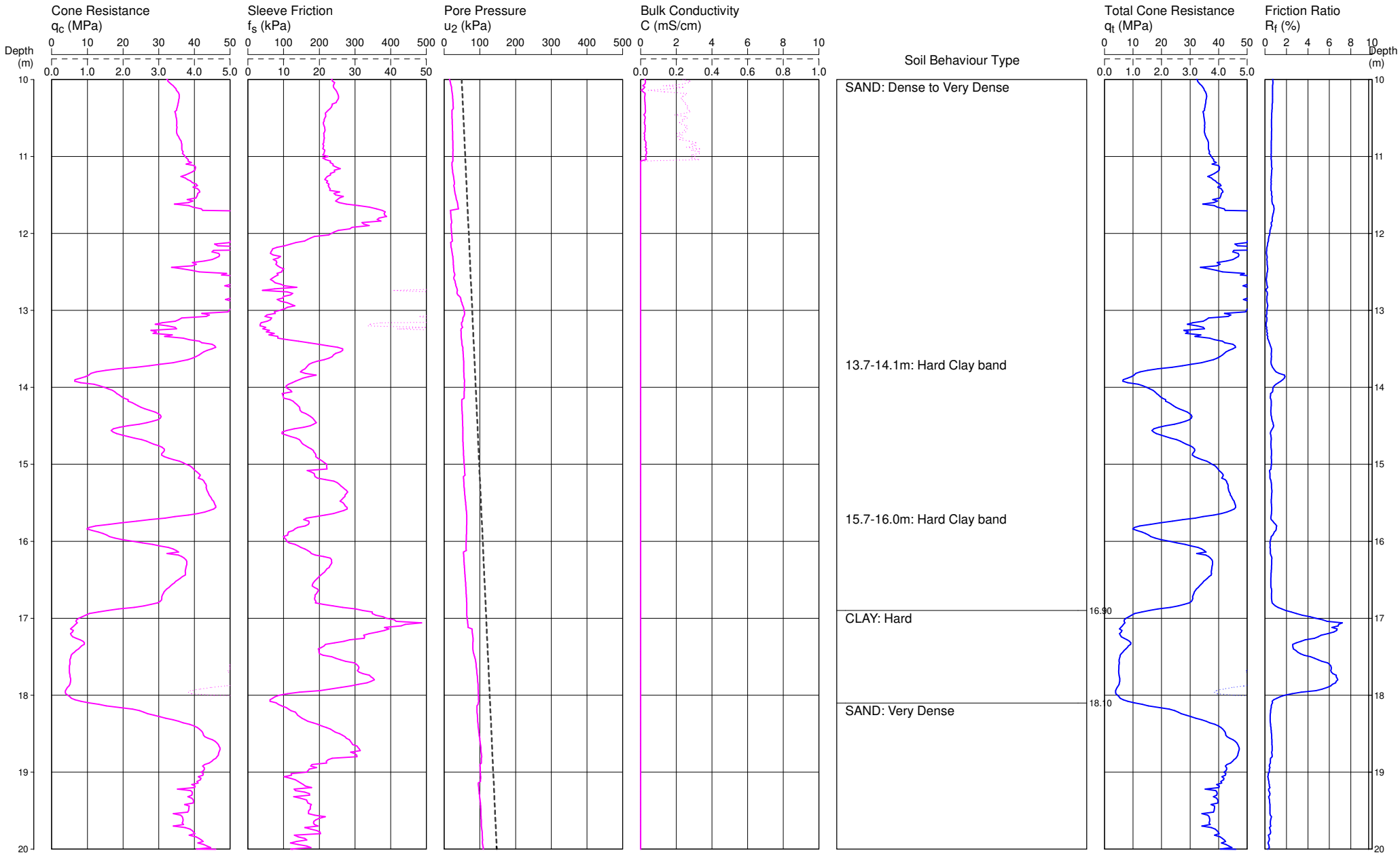
REDUCED LEVEL: 9.9

COORDINATES: 334635.9E 6241700.8N GDA2020

CPT109

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT109.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

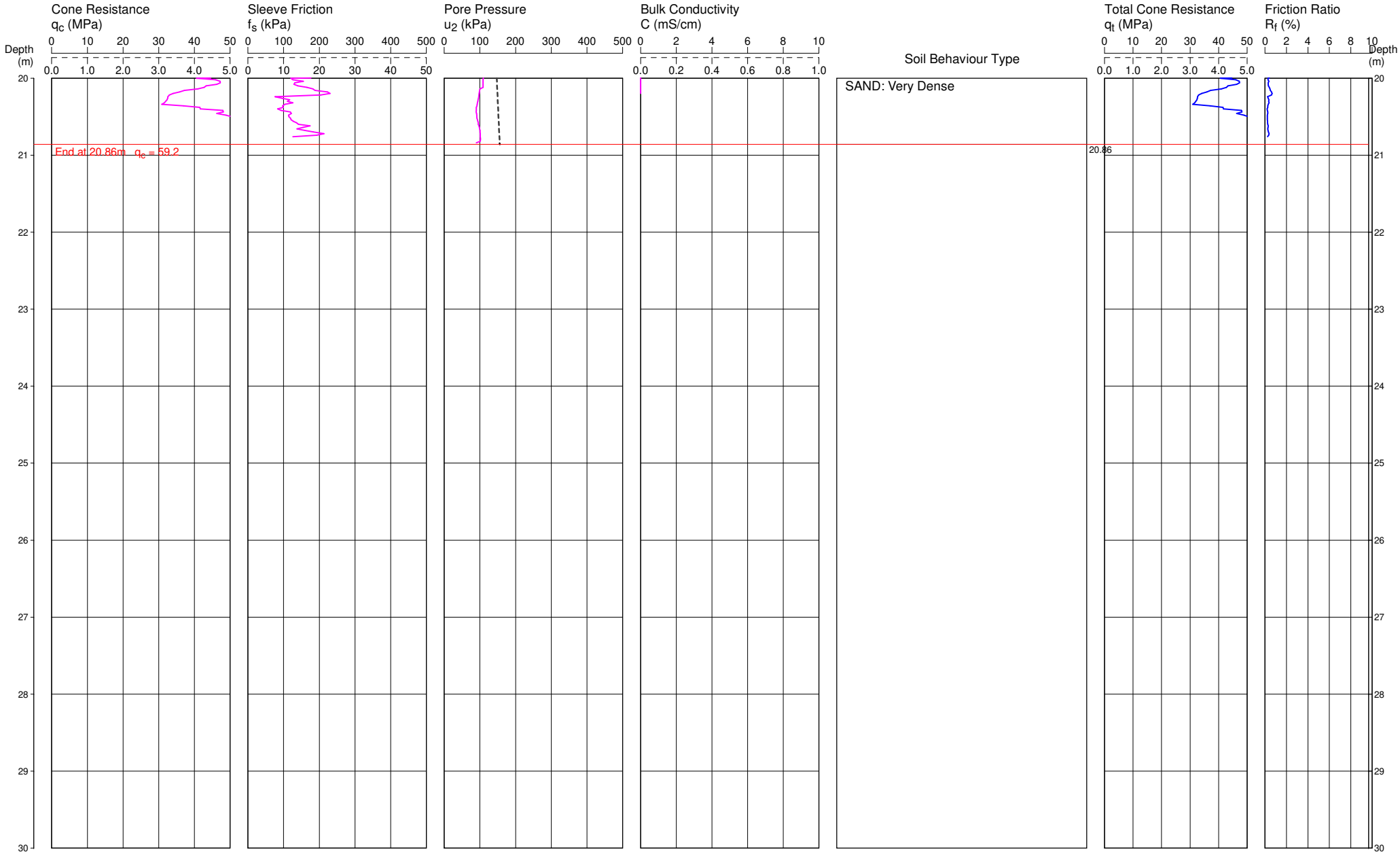
REDUCED LEVEL: 9.9

COORDINATES: 334635.9E 6241700.8N GDA2020

CPT109

DATE 02/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT109.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

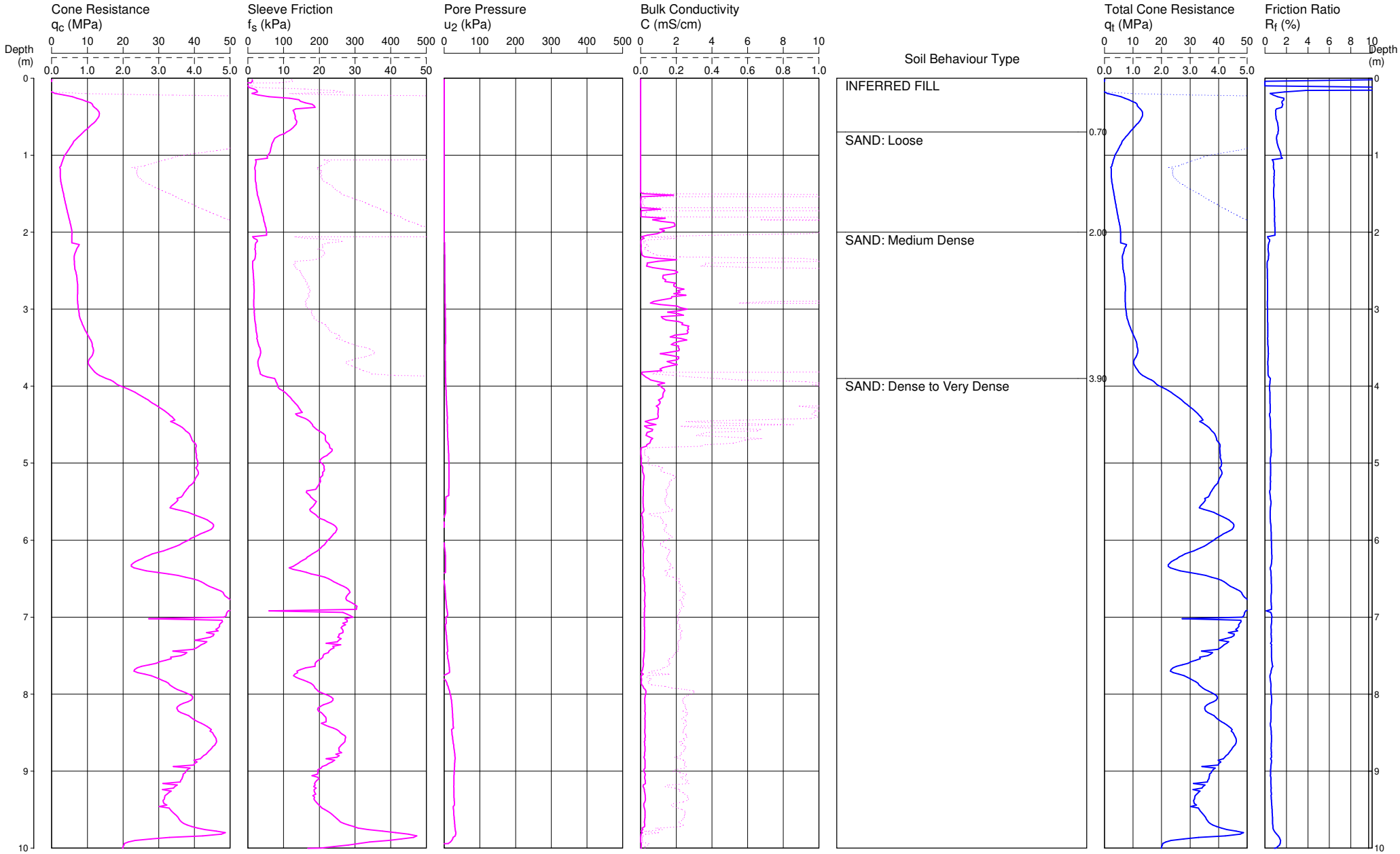
REDUCED LEVEL: 9.8

COORDINATES: 334619.8E 6241629.3N GDA2020

CPT110

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO BENDING RIVETY DENSE SAND. HOLE COLLAPSED AT 5.1M AFTER WITHDRAWAL OF RODS.

File: ER2 DESIGNS BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT110.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

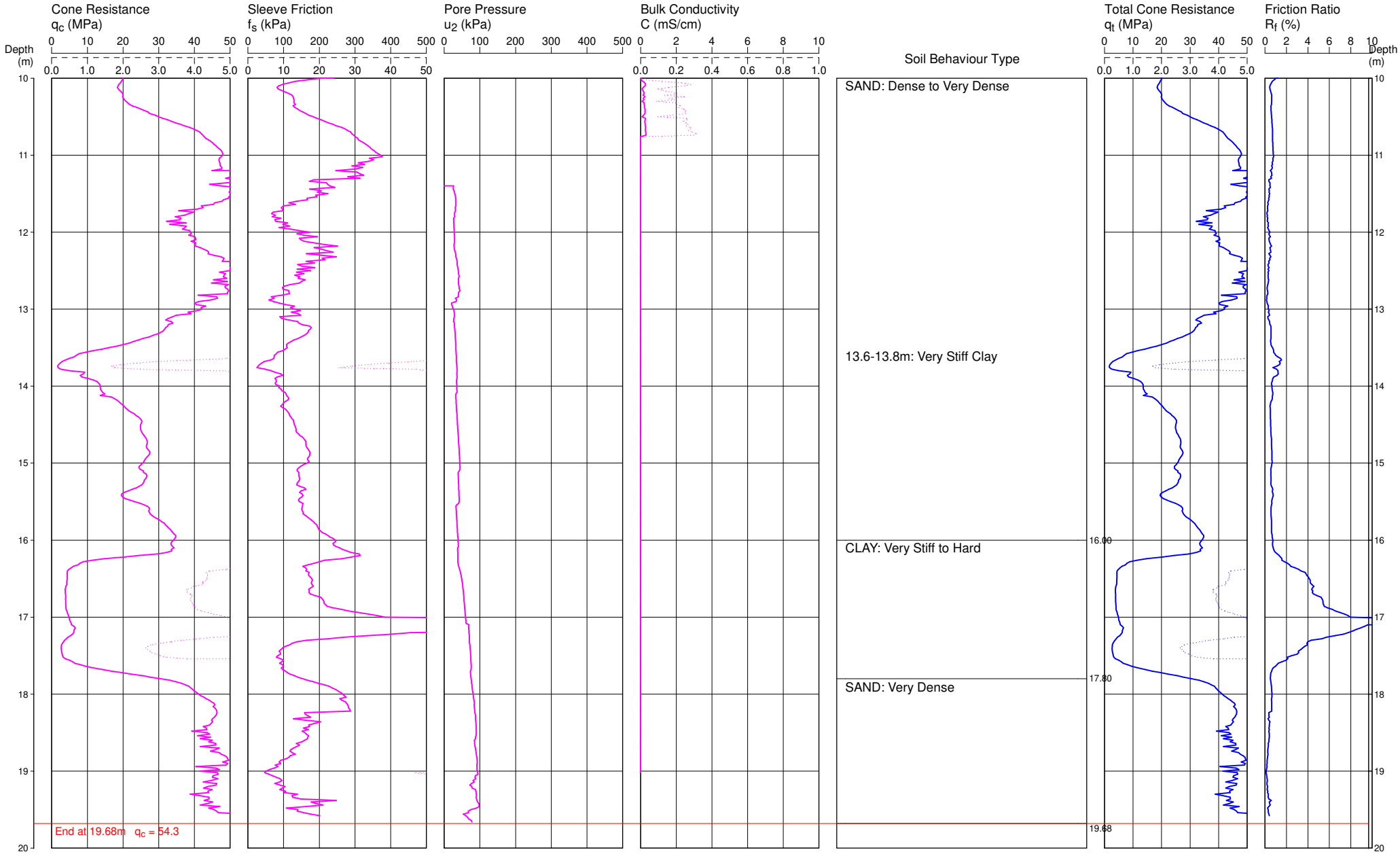
REDUCED LEVEL: 9.8

COORDINATES: 334619.8E 6241629.3N GDA2020

CPT110

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO BENDING RIVERTY DENSE SAND. HOLE COLLAPSED AT 5.1M AFTER WITHDRAWAL OF RODS.

File: ER:\2 DENSE\2 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT110.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

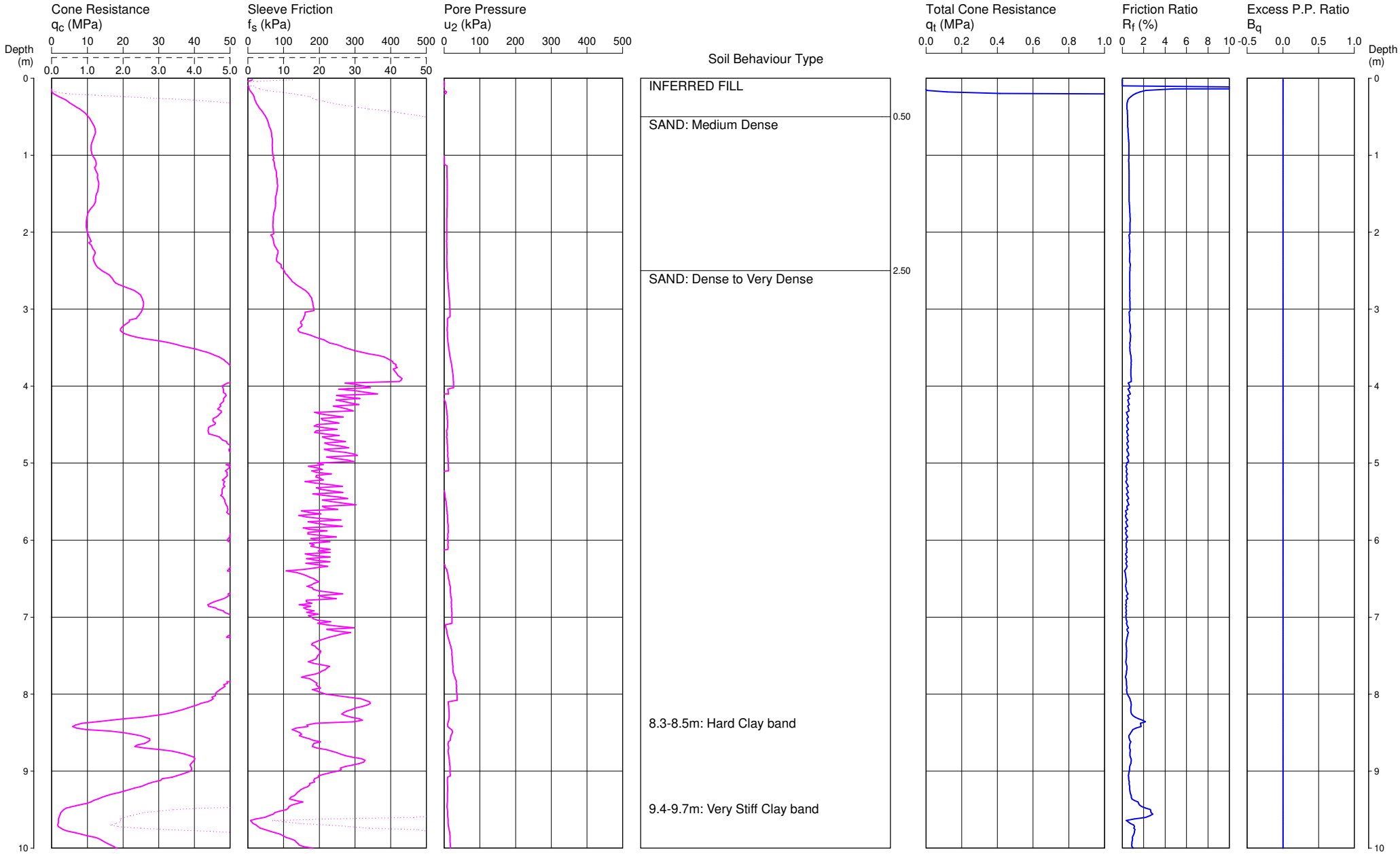
REDUCED LEVEL: 9.9

COORDINATES: 334678.8E 6241755.9N GDA2020

CPT111

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DENSE SAND. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: I:\2 DENSE\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT111.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

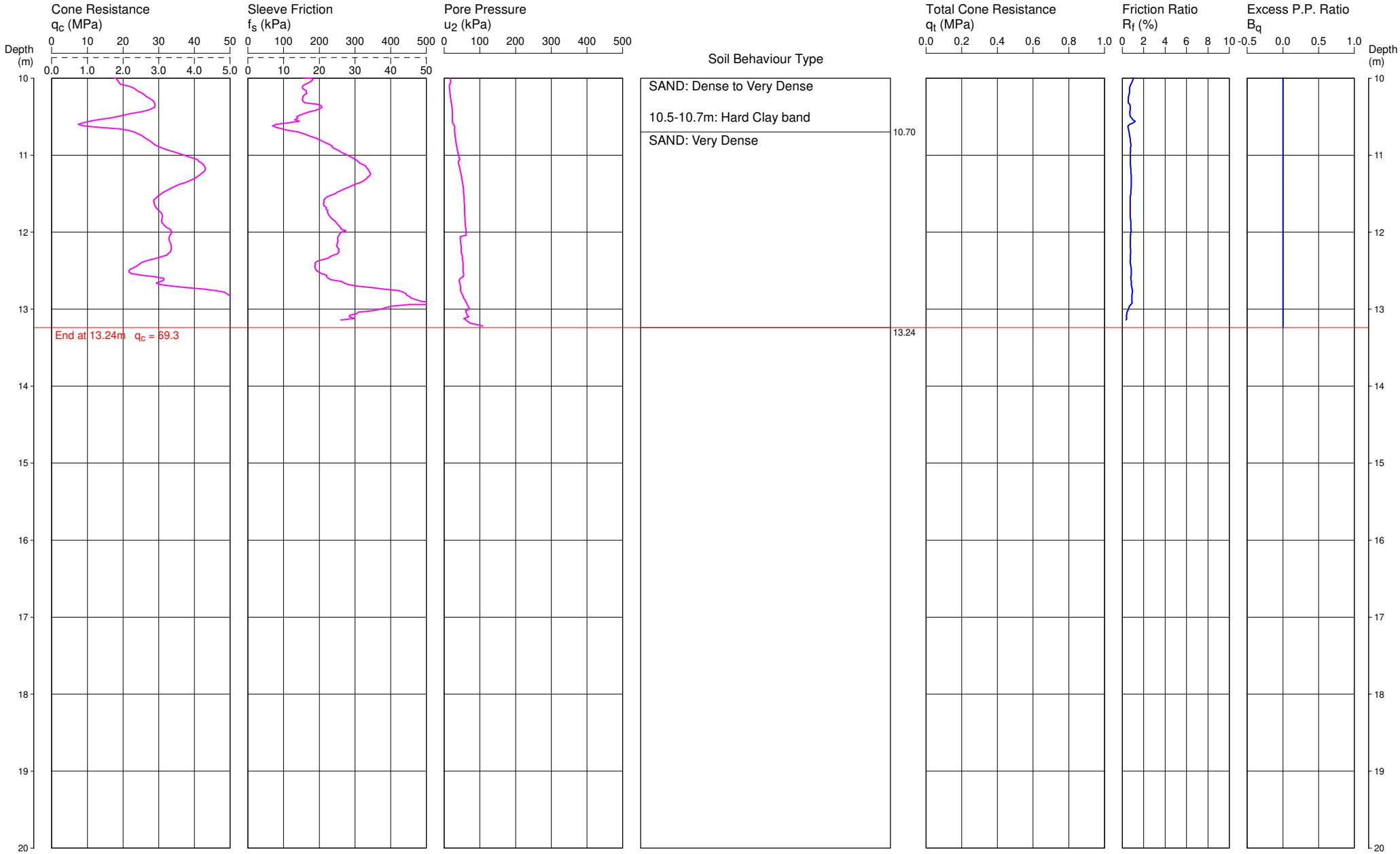
REDUCED LEVEL: 9.9

COORDINATES: 334678.8E 6241755.9N GDA2020

CPT111

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVETS. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: ER:\2019\219609.02\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT111.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

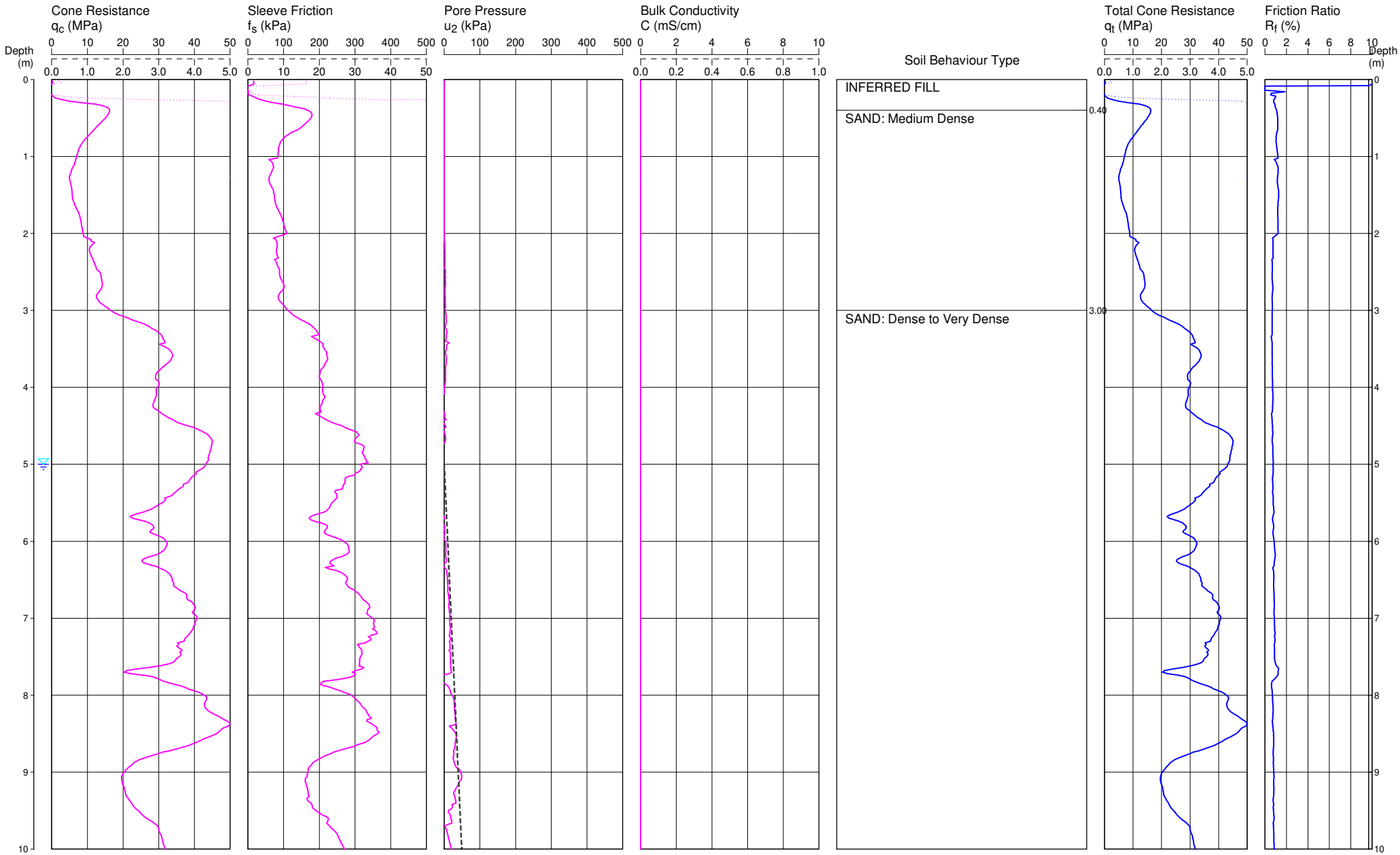
REDUCED LEVEL: 9.9

COORDINATES: 334680.8E 6241710.1N GDA2020

CPT112

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION ON RODS.
GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT112.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

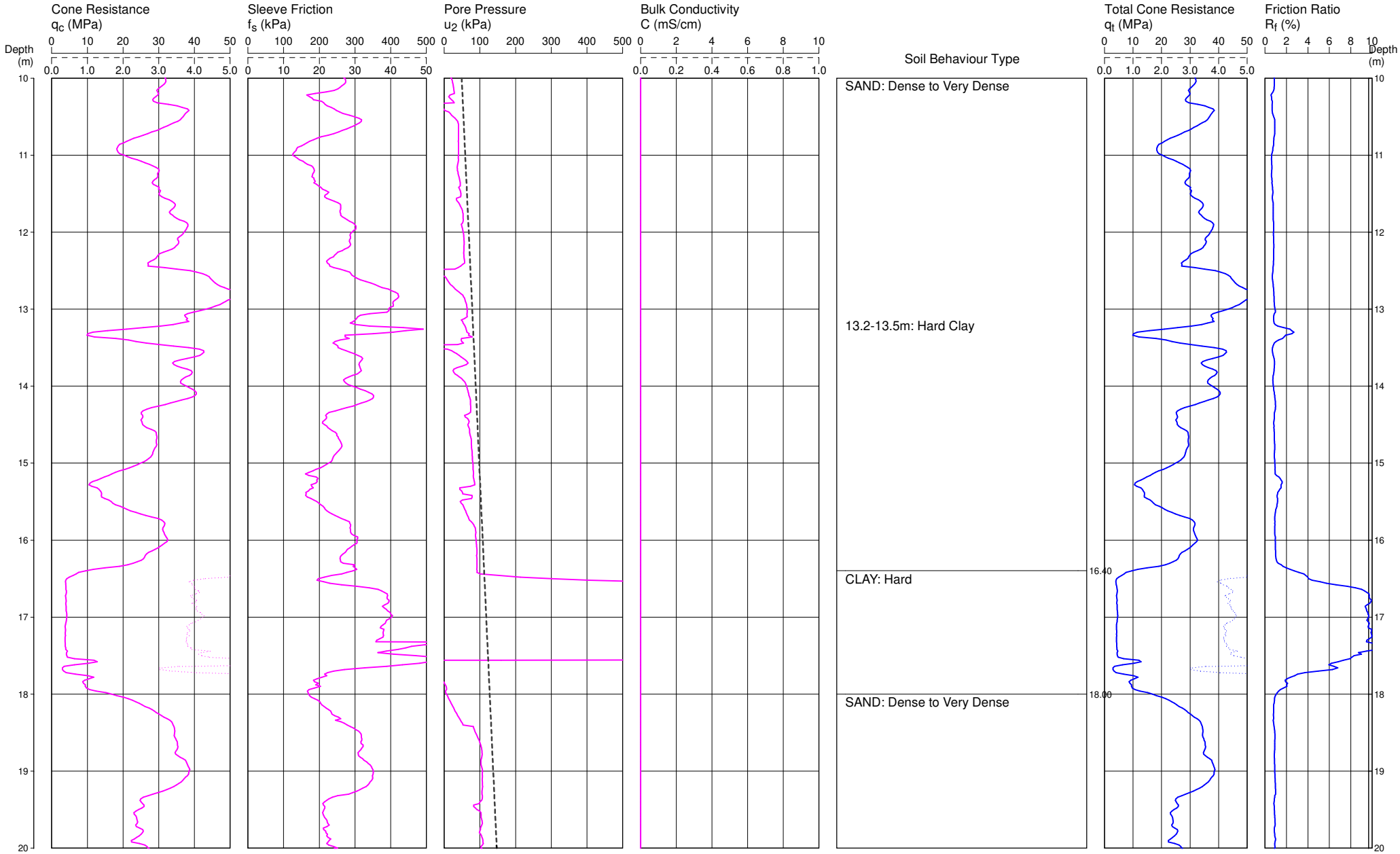
REDUCED LEVEL: 9.9

COORDINATES: 334680.8E 6241710.1N GDA2020

CPT112

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT112.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

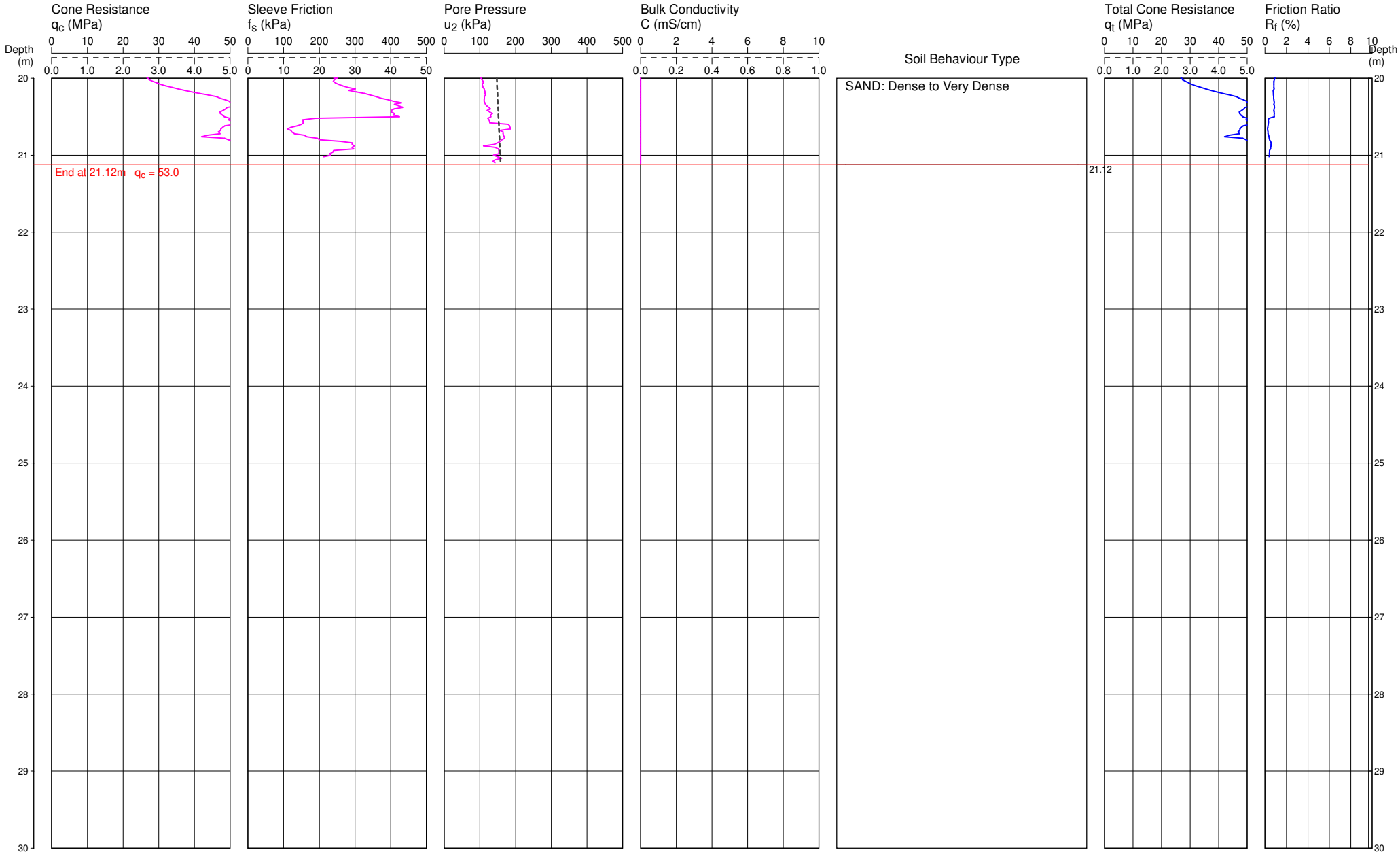
REDUCED LEVEL: 9.9

COORDINATES: 334680.8E 6241710.1N GDA2020

CPT112

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT112.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

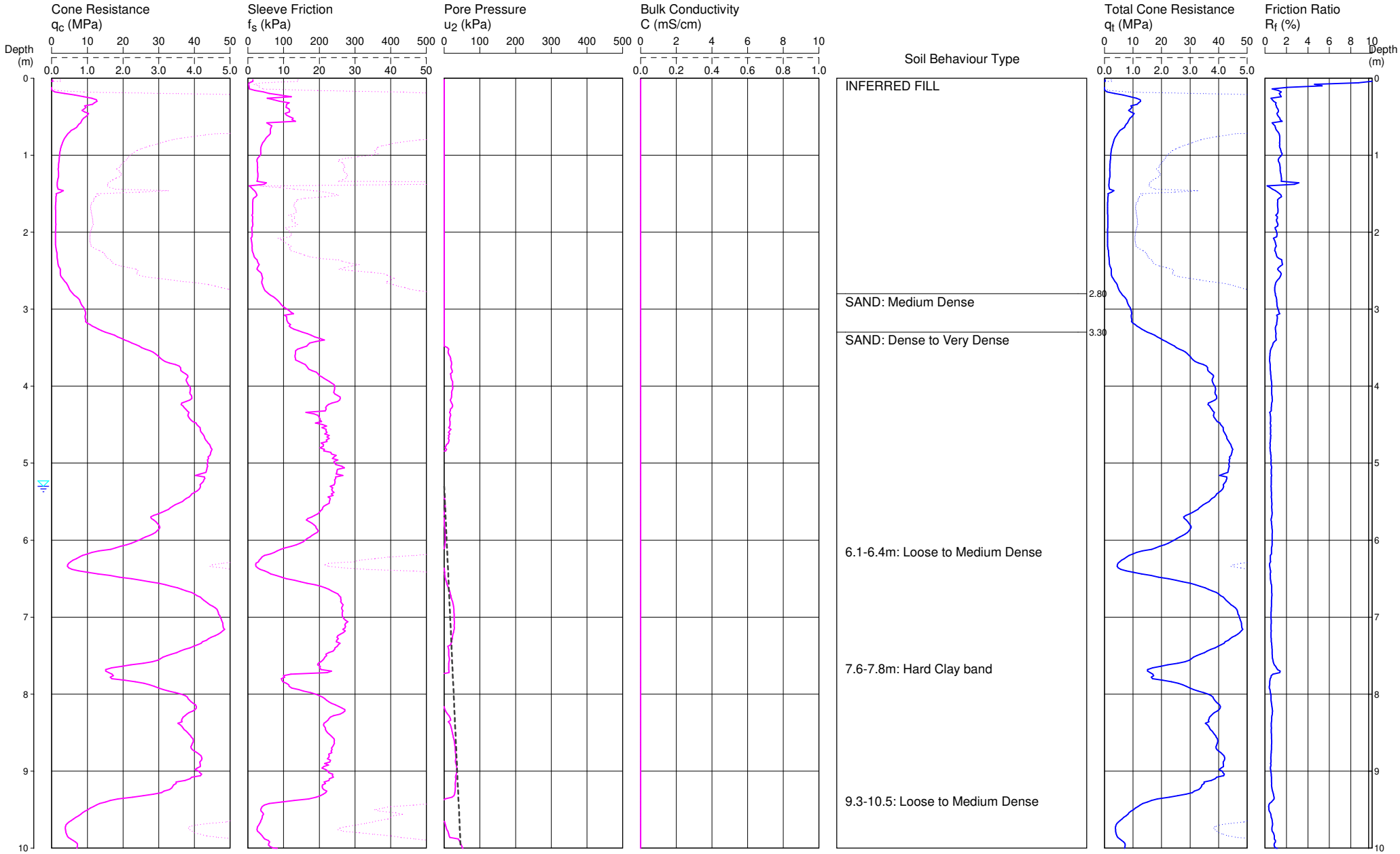
REDUCED LEVEL: 9.9

COORDINATES: 334685.9E 6241661.4N GDA2020

CPT113

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION ON RODS.
GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT113.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

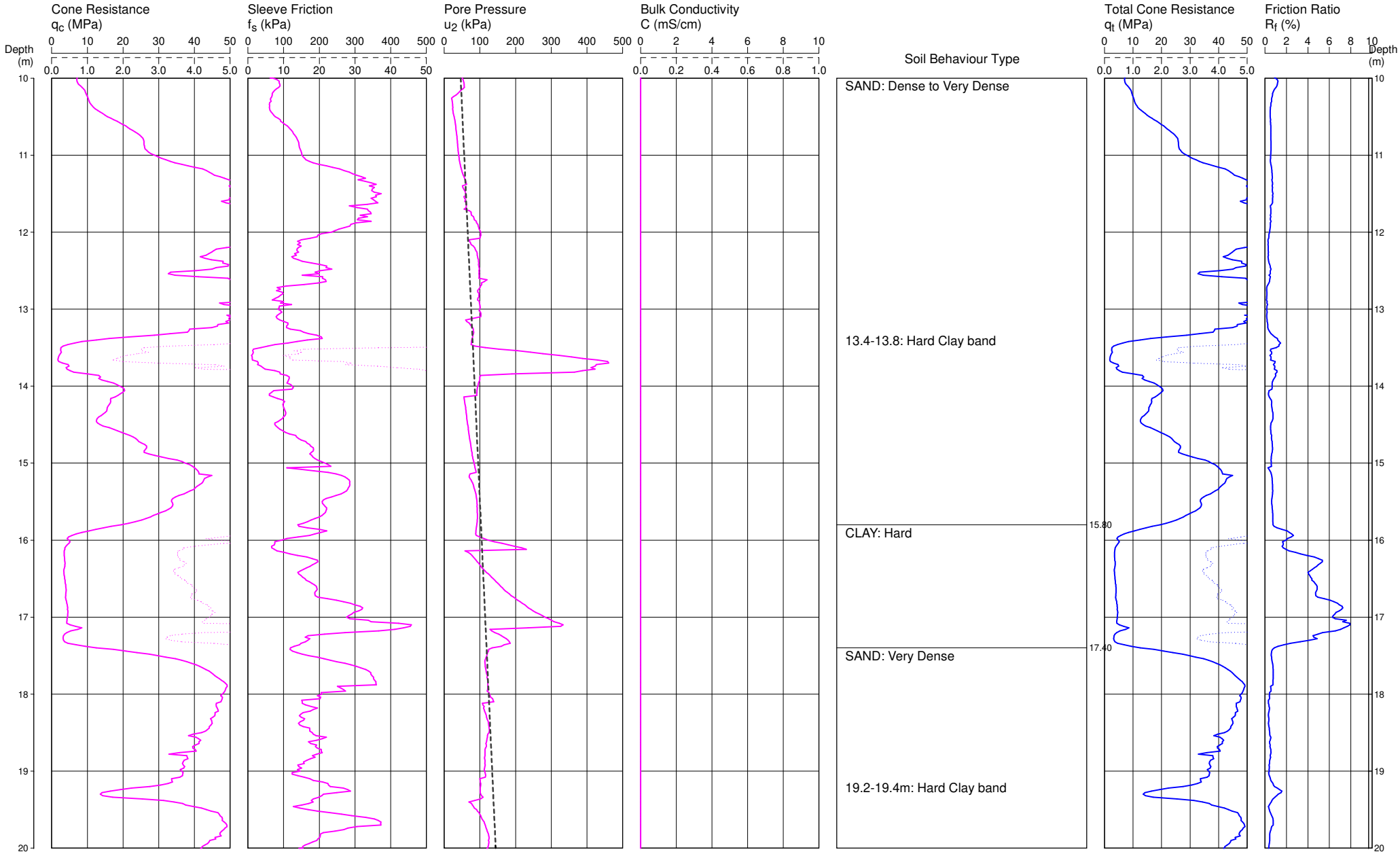
REDUCED LEVEL: 9.9

COORDINATES: 334685.9E 6241661.4N GDA2020

CPT113

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION ON RODS
GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT113.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

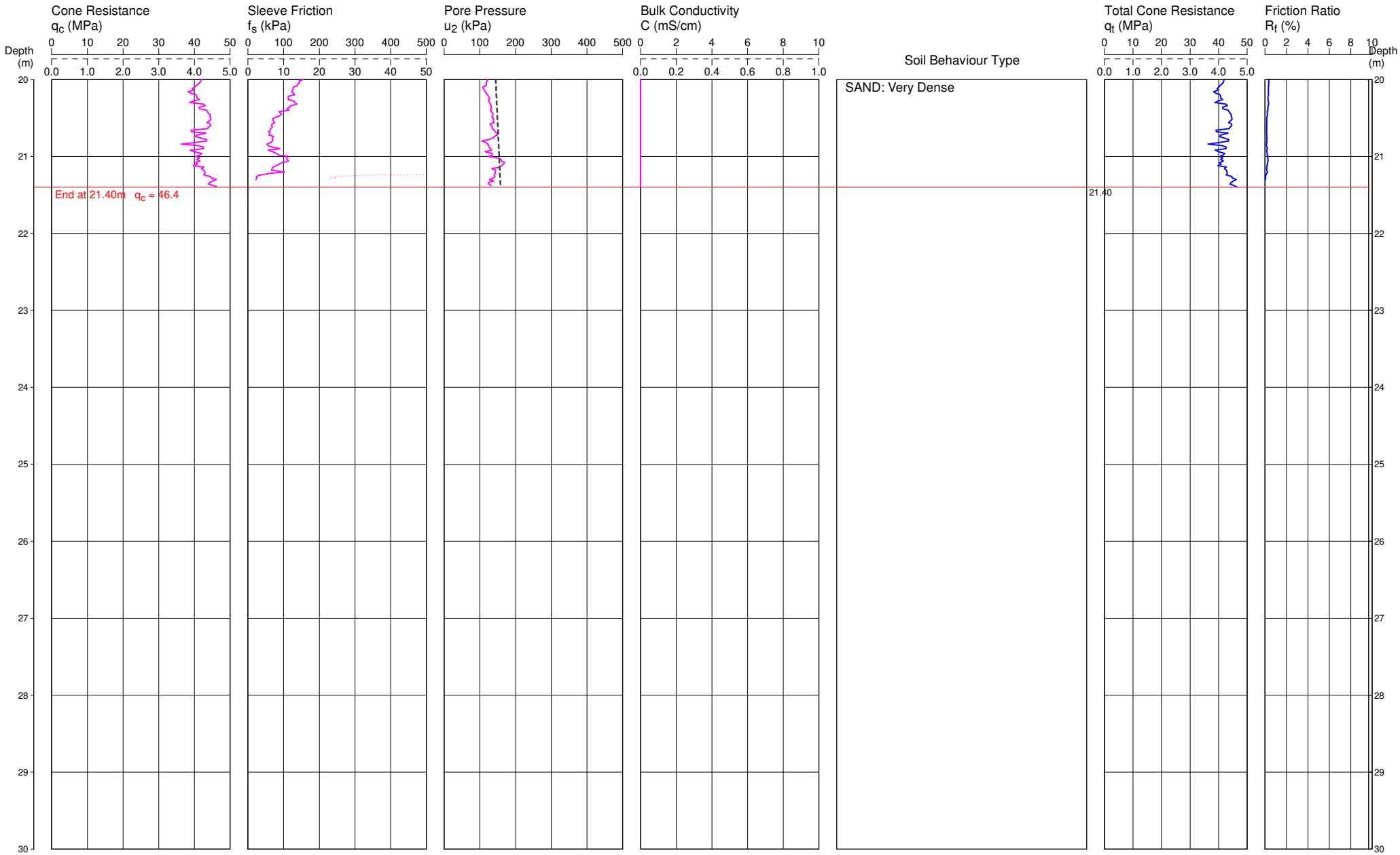
REDUCED LEVEL: 9.9

COORDINATES: 334685.9E 6241661.4N GDA2020

CPT113

DATE 07/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT113.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

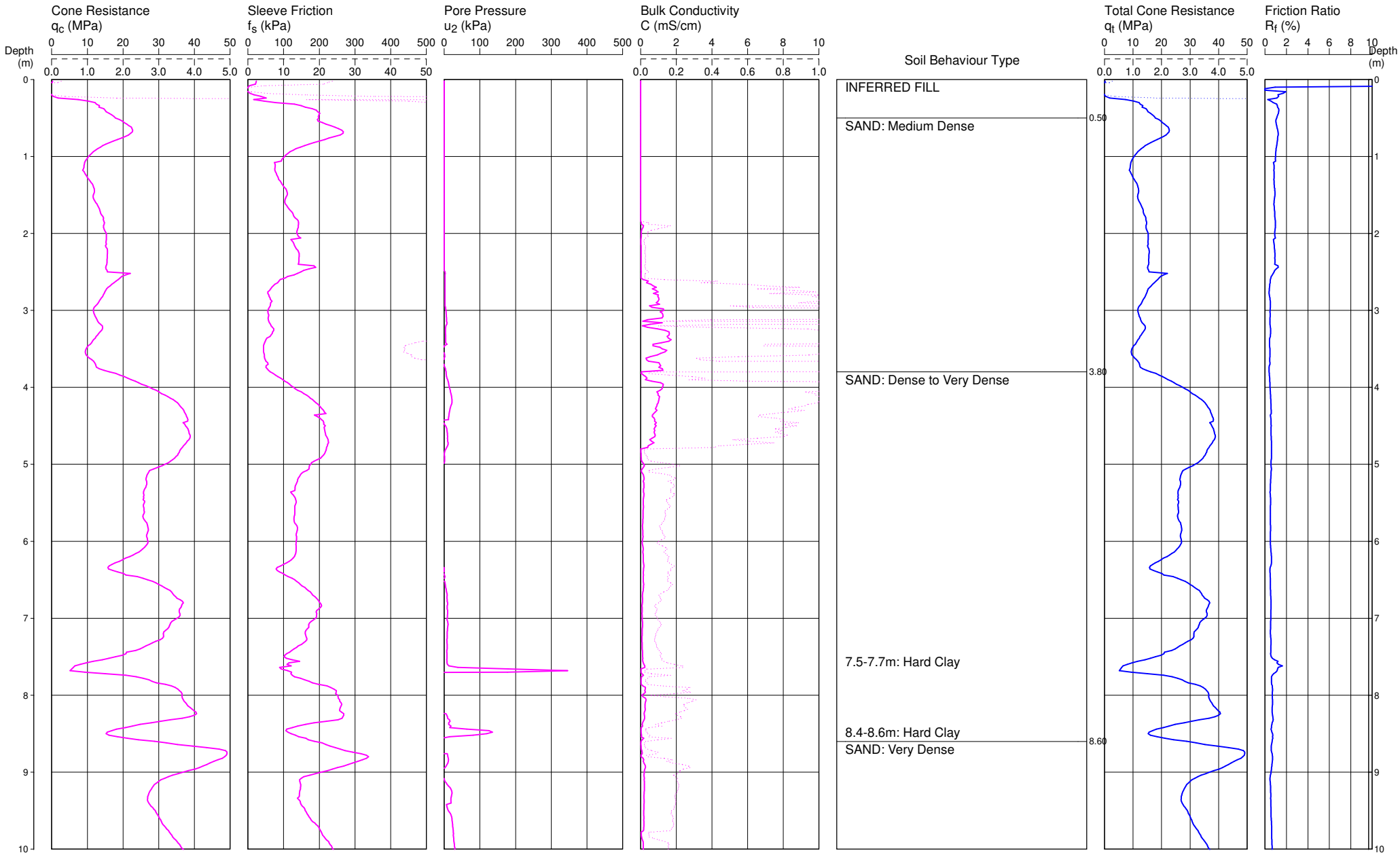
REDUCED LEVEL: 9.7

COORDINATES: 334675.2E 6241604.6N GDA2020

CPT114

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.2M. TEST DISCONTINUED DUE TO BENDING IN VERY DENSE SAND. HOLE COLLAPSED AT 5.2M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT114.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

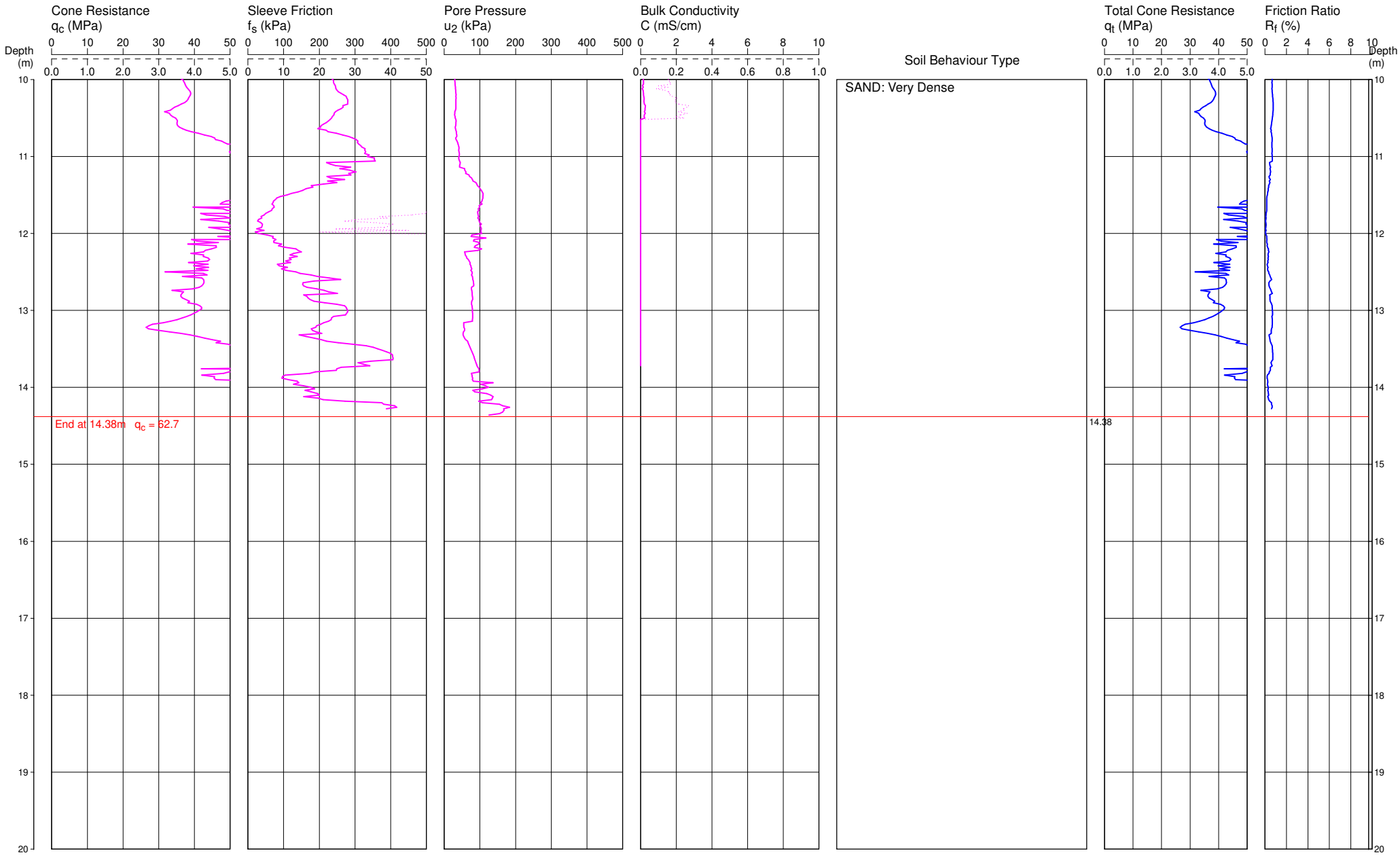
REDUCED LEVEL: 9.7

COORDINATES: 334675.2E 6241604.6N GDA2020

CPT114

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.2M. TEST DISCONTINUED DUE TO BENDING IN RODS IN VERY DENSE SAND. HOLE COLLAPSED AT 5.2M AFTER WITHDRAWAL OF RODS.

File: T:\219609_02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT114.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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PIEZOCONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

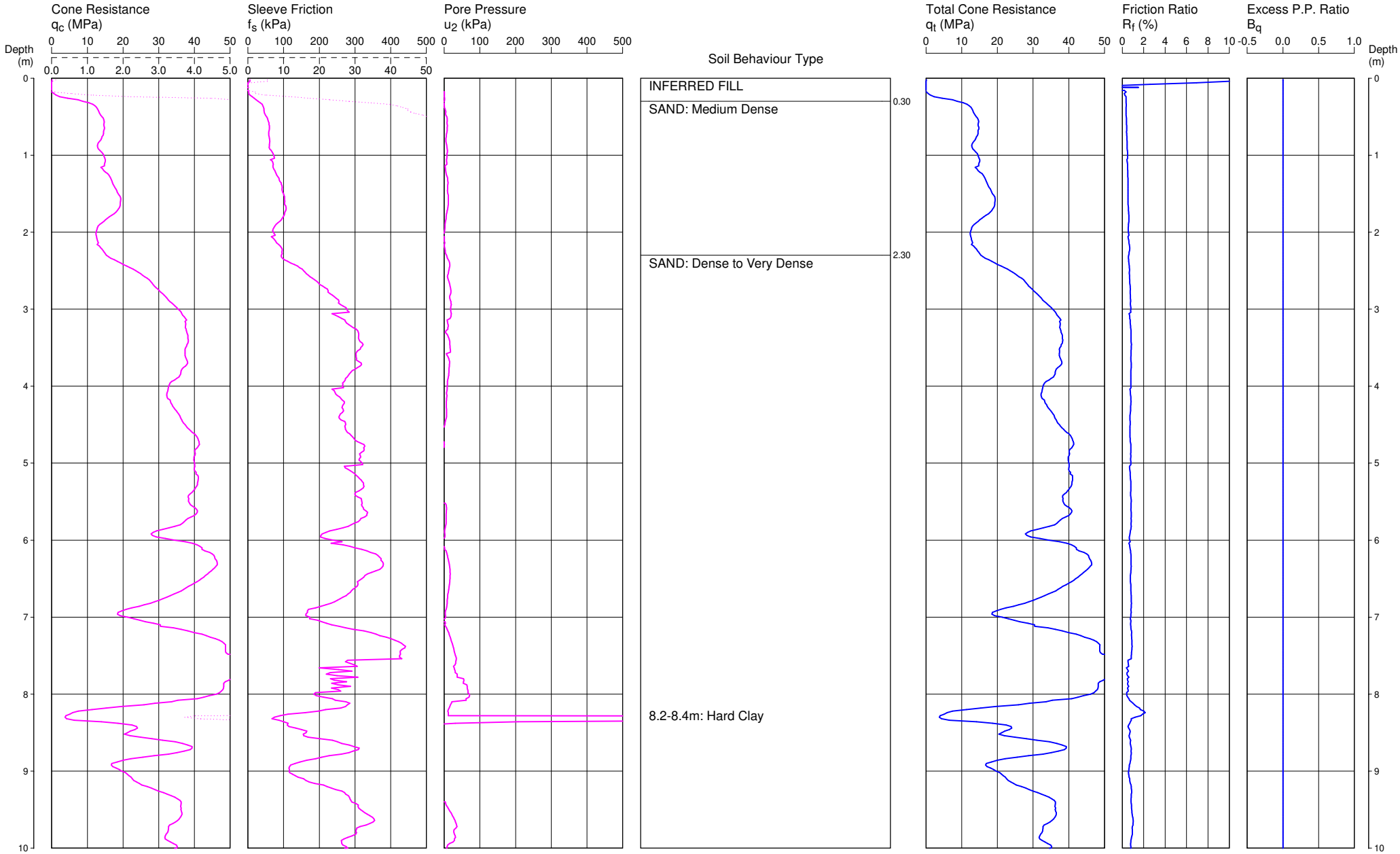
REDUCED LEVEL: 9.8

COORDINATES: 334715.9E 6241747.6N GDA2020

CPT115

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVETY 2 DENSE SAND. HOLE COLLAPSED AT 4.3M AFTER WITHDRAWAL OF RODS.

File: I:\2021\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT115.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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PIEZOCONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

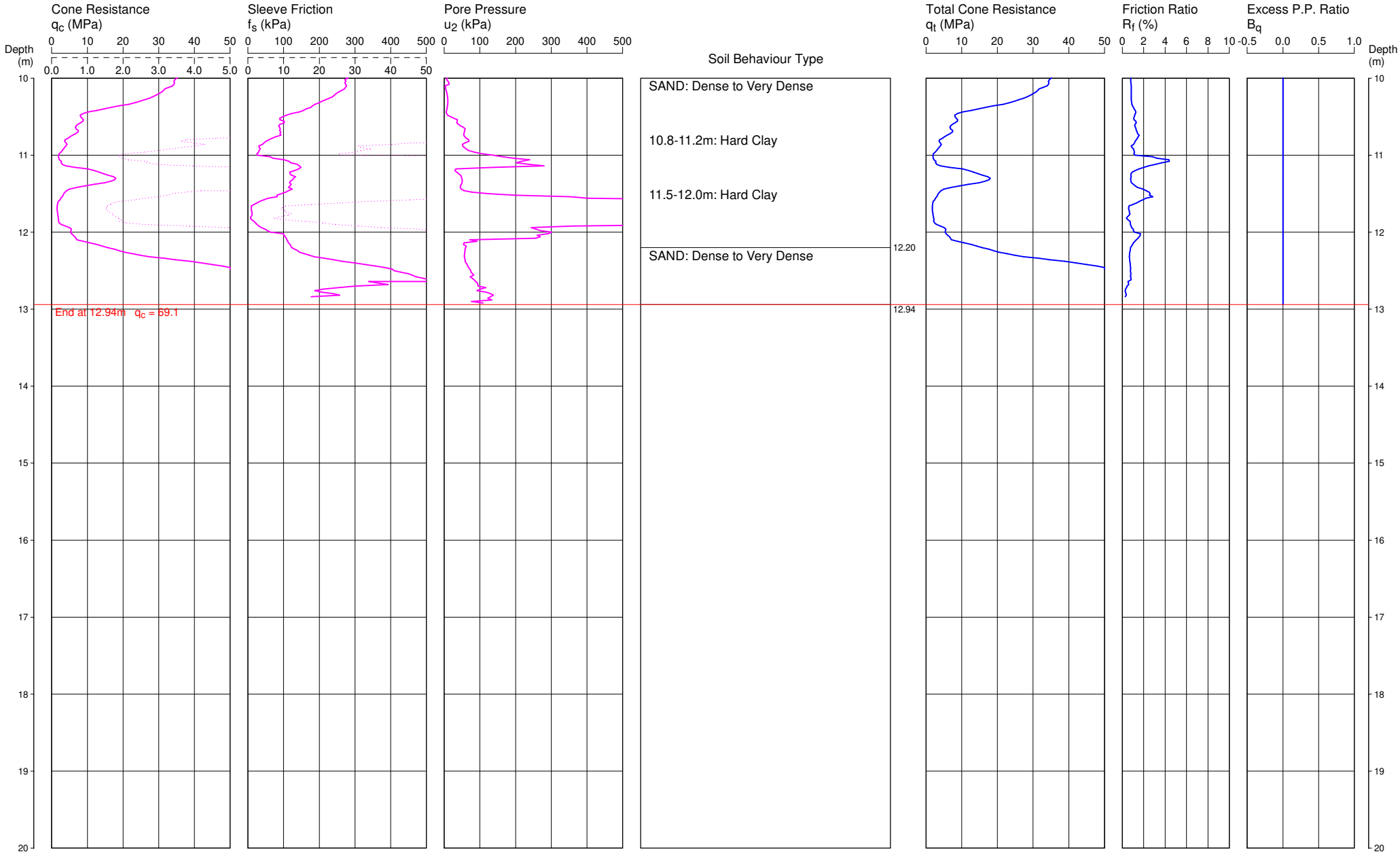
REDUCED LEVEL: 9.8

COORDINATES: 334715.9E 6241747.6N GDA2020

CPT115

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO BENDING RIVERTY2 DESIGNS\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT115.CP5
HOLE COLLAPSED AT 4.3M AFTER WITHDRAWAL OF RODS.

File: RIVERTY2 DESIGNS\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT115.CP5
Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

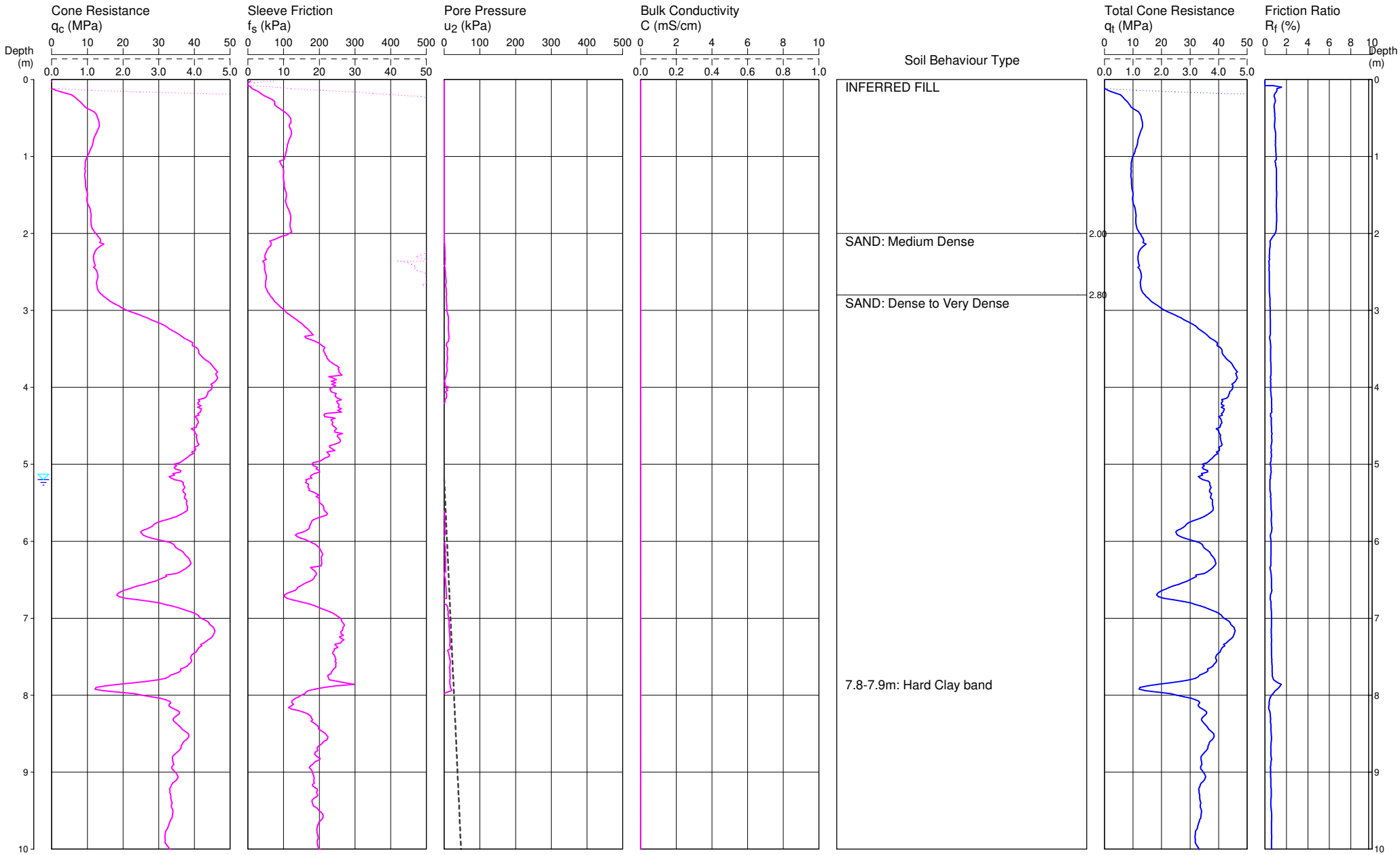
REDUCED LEVEL: 10.0

COORDINATES: 334718.1E 6241697.5N GDA2020

CPT116

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.09M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.2M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT116.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.20m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

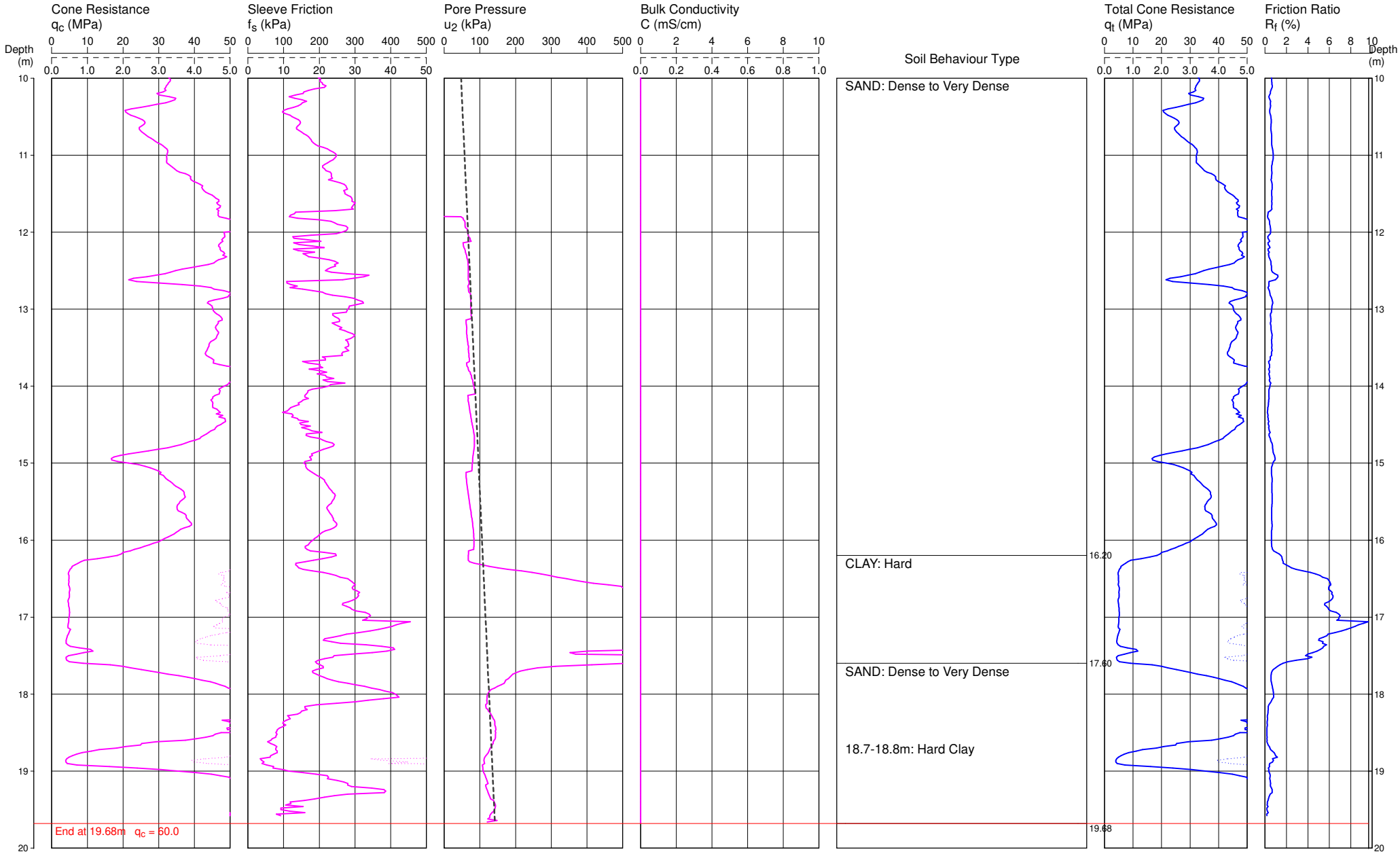
REDUCED LEVEL: 10.0

COORDINATES: 334718.1E 6241697.5N GDA2020

CPT116

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.09M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.2M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT116.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.20m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

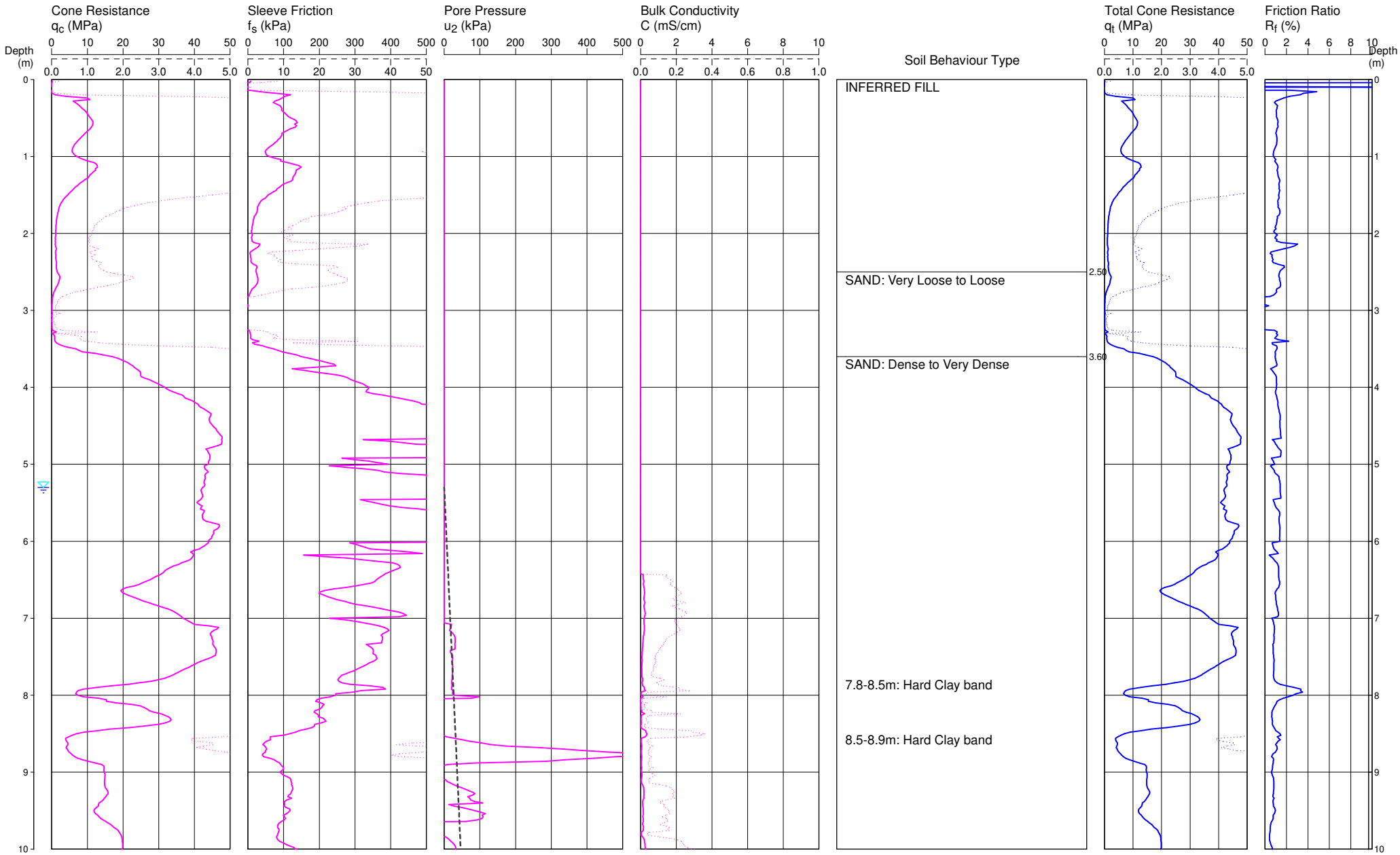
REDUCED LEVEL: 9.9

COORDINATES: 334705.3E 6241639.7N GDA2020

CPT117

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT117.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

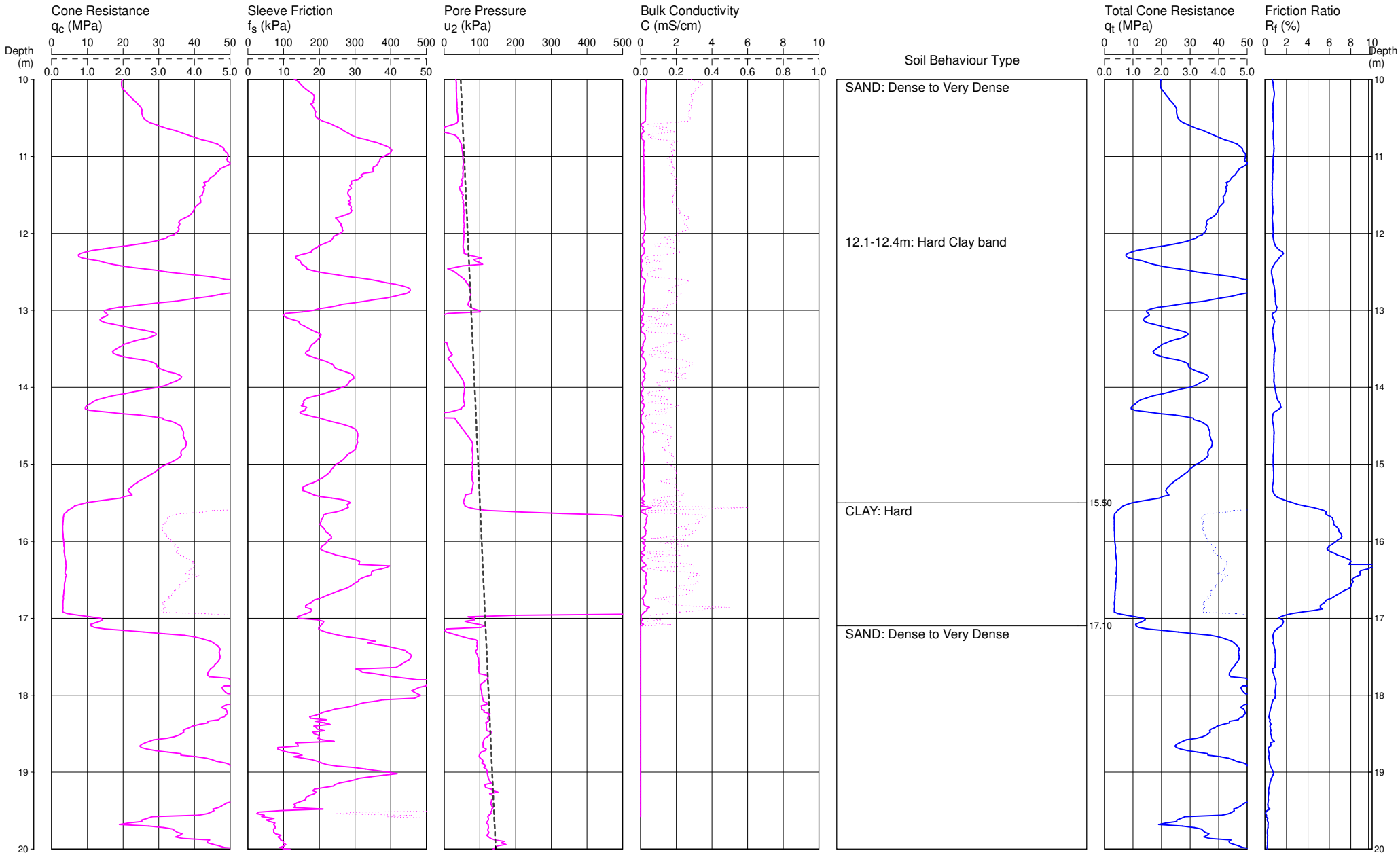
REDUCED LEVEL: 9.9

COORDINATES: 334705.3E 6241639.7N GDA2020

CPT117

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT117.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (measured)

ConePlot Version 5.9.2
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Geotechnics / Environment / Groundwater

CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

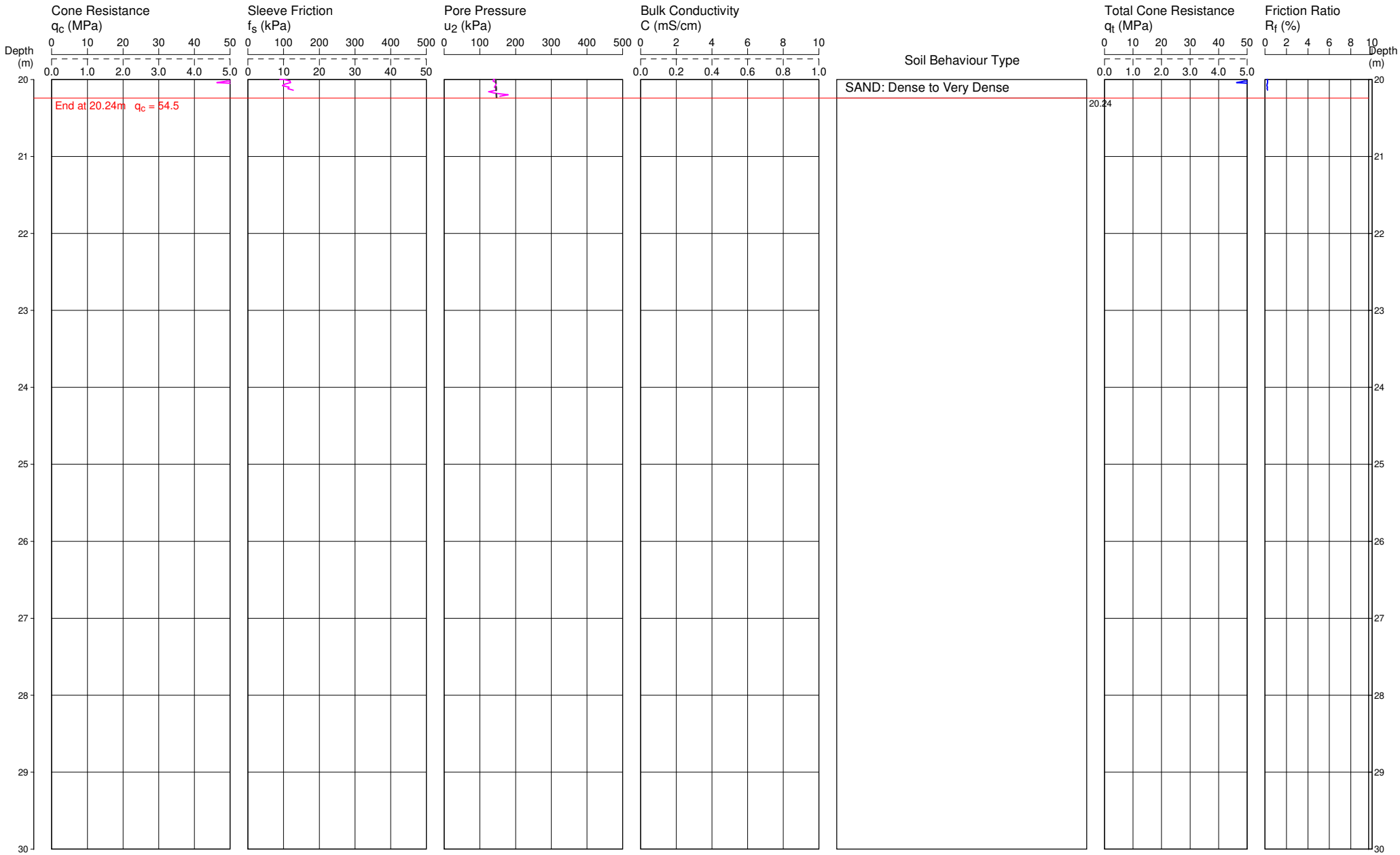
REDUCED LEVEL: 9.9

COORDINATES: 334705.3E 6241639.7N GDA2020

CPT117

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.17M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT117.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

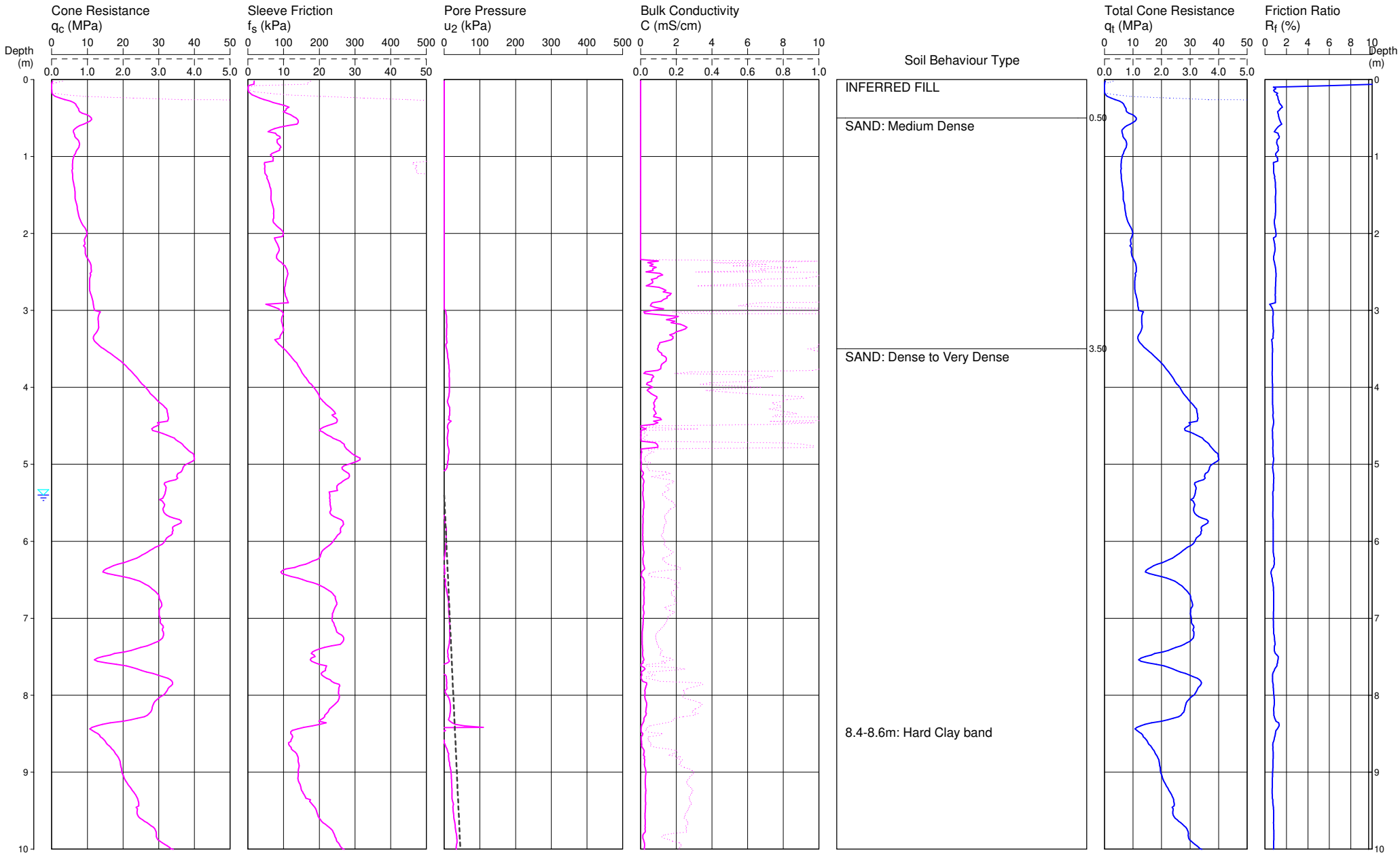
REDUCED LEVEL: 9.8

COORDINATES: 334707.8E 6241599.1N GDA2020

CPT118

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT118.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.40m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

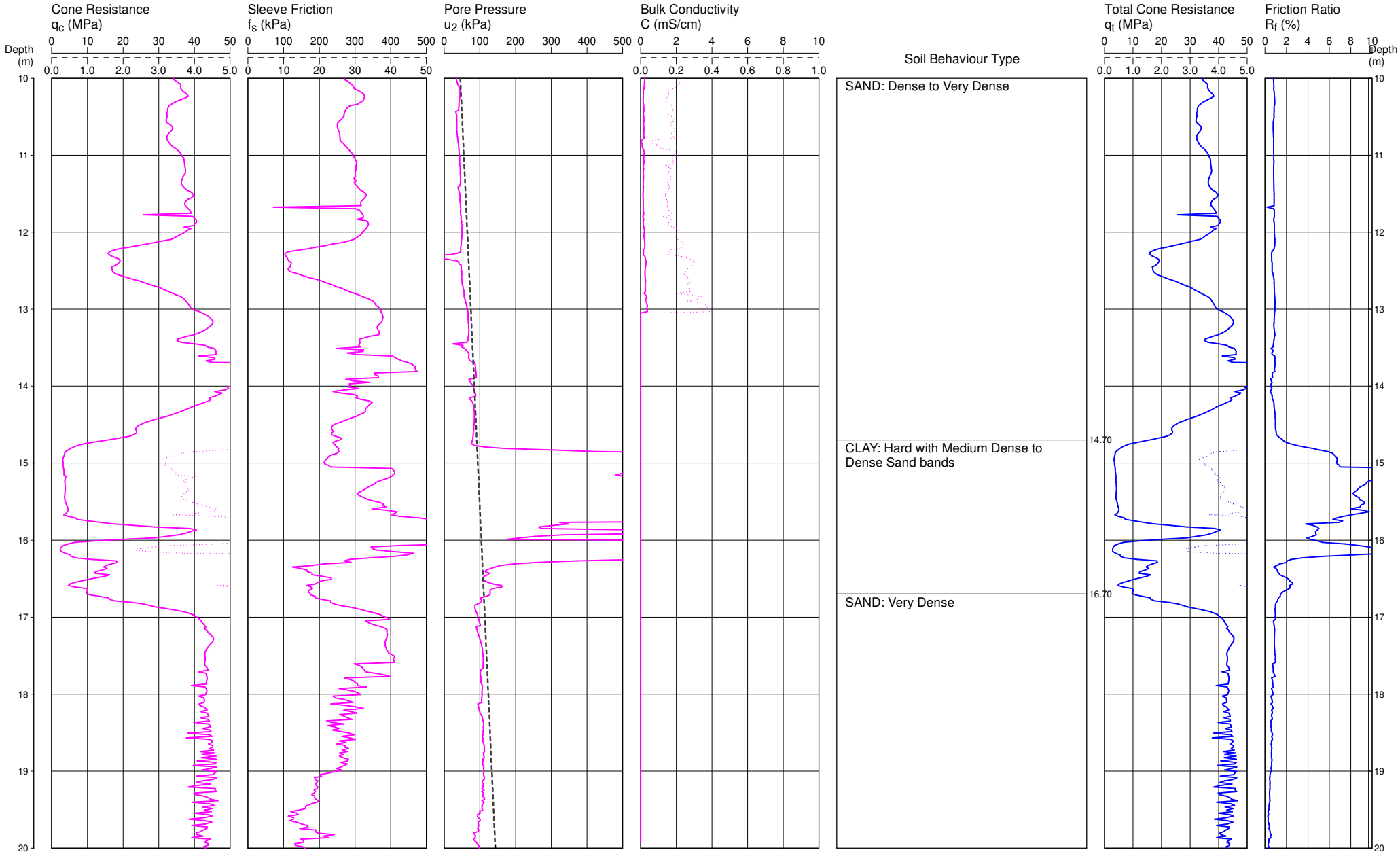
REDUCED LEVEL: 9.8

COORDINATES: 334707.8E 6241599.1N GDA2020

CPT118

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE ROD FRICTION.
GROUNDWATER OBSERVED AT 5.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT118.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.40m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

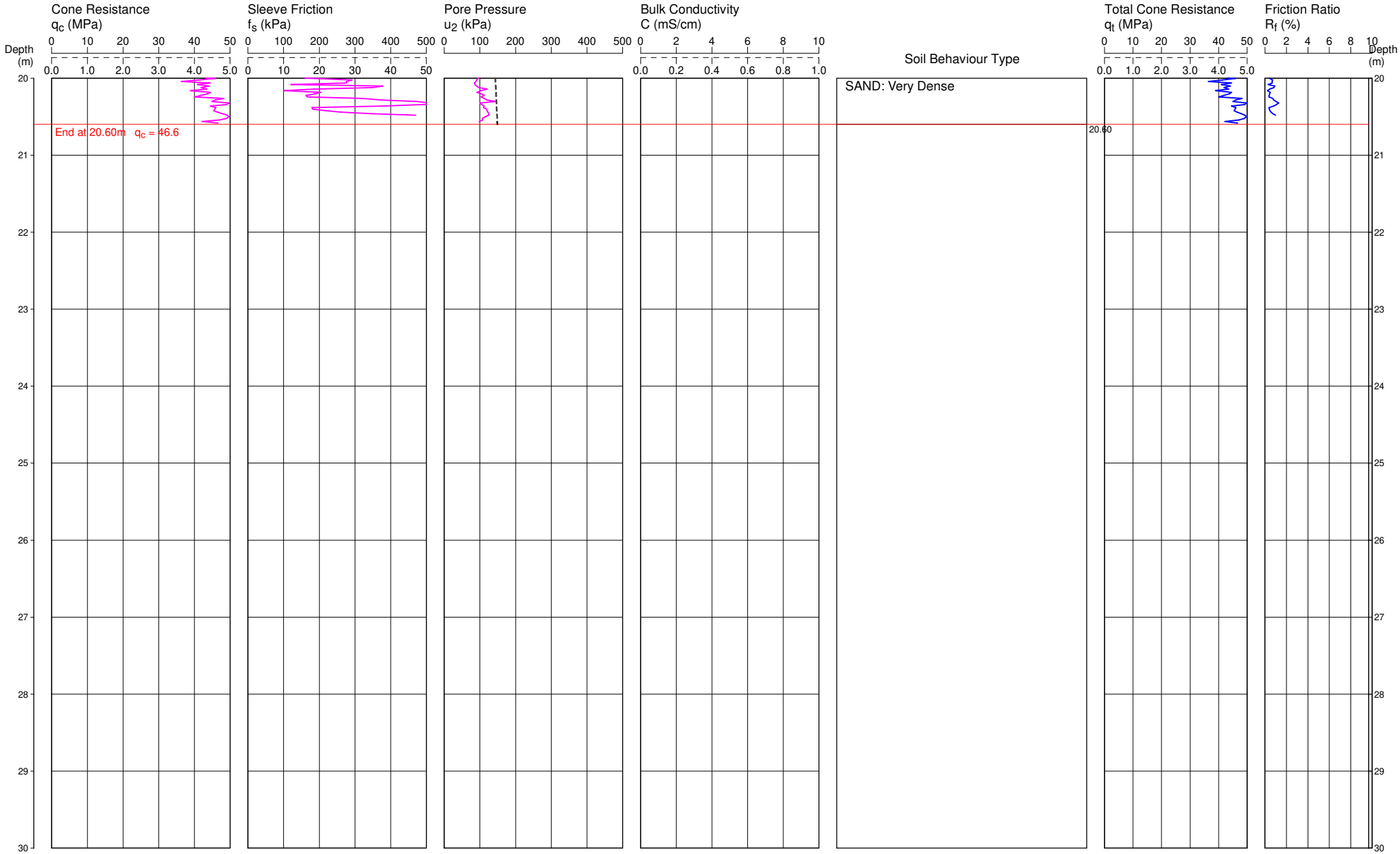
REDUCED LEVEL: 9.8

COORDINATES: 334707.8E 6241599.1N GDA2020

CPT118

DATE 03/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.15M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT118.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

Water depth after test: 5.40m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

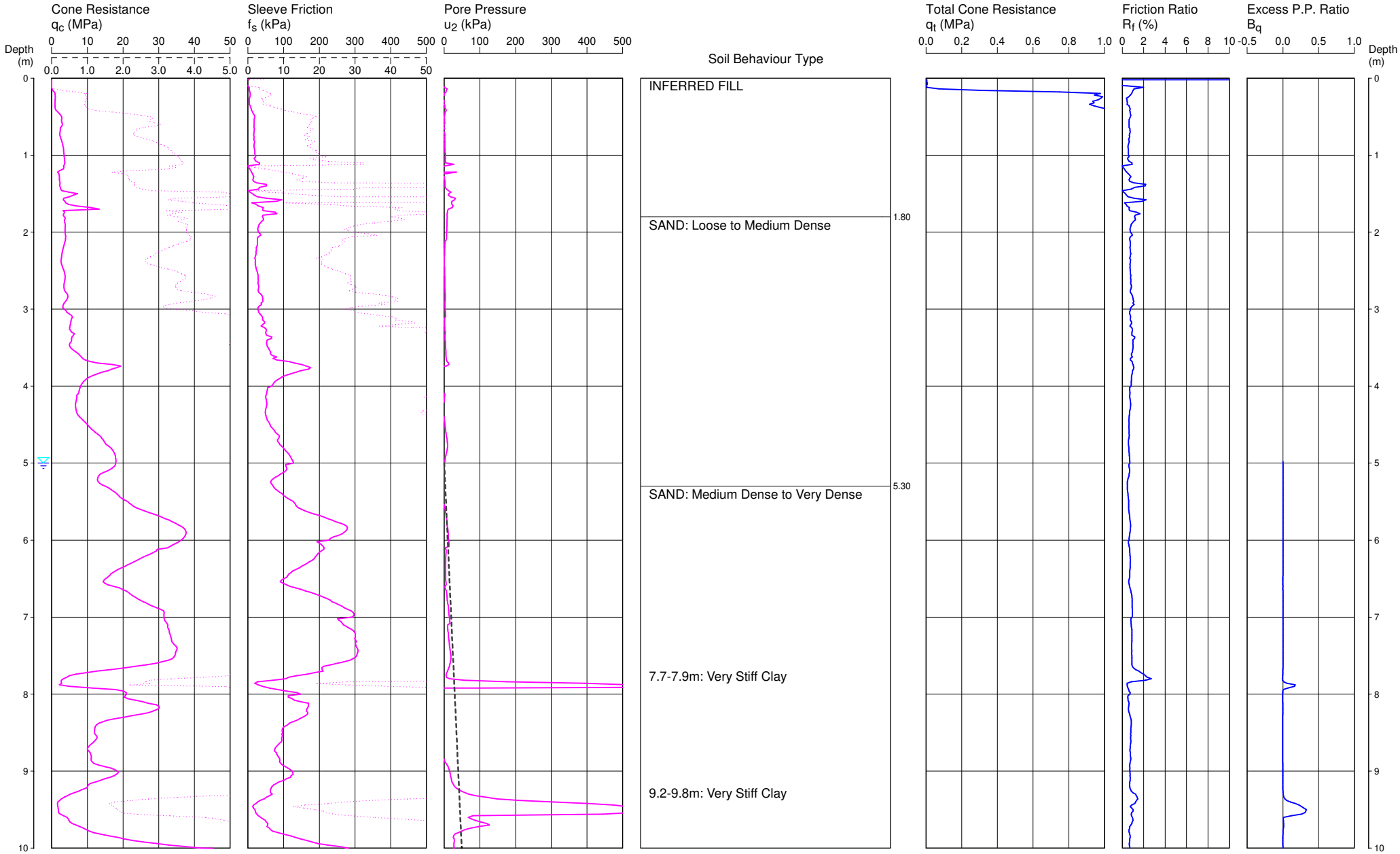
REDUCED LEVEL: 9.8

COORDINATES: 334757.4E 6241708.7N GDA2020

CPT119

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.16M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT119.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (measured)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

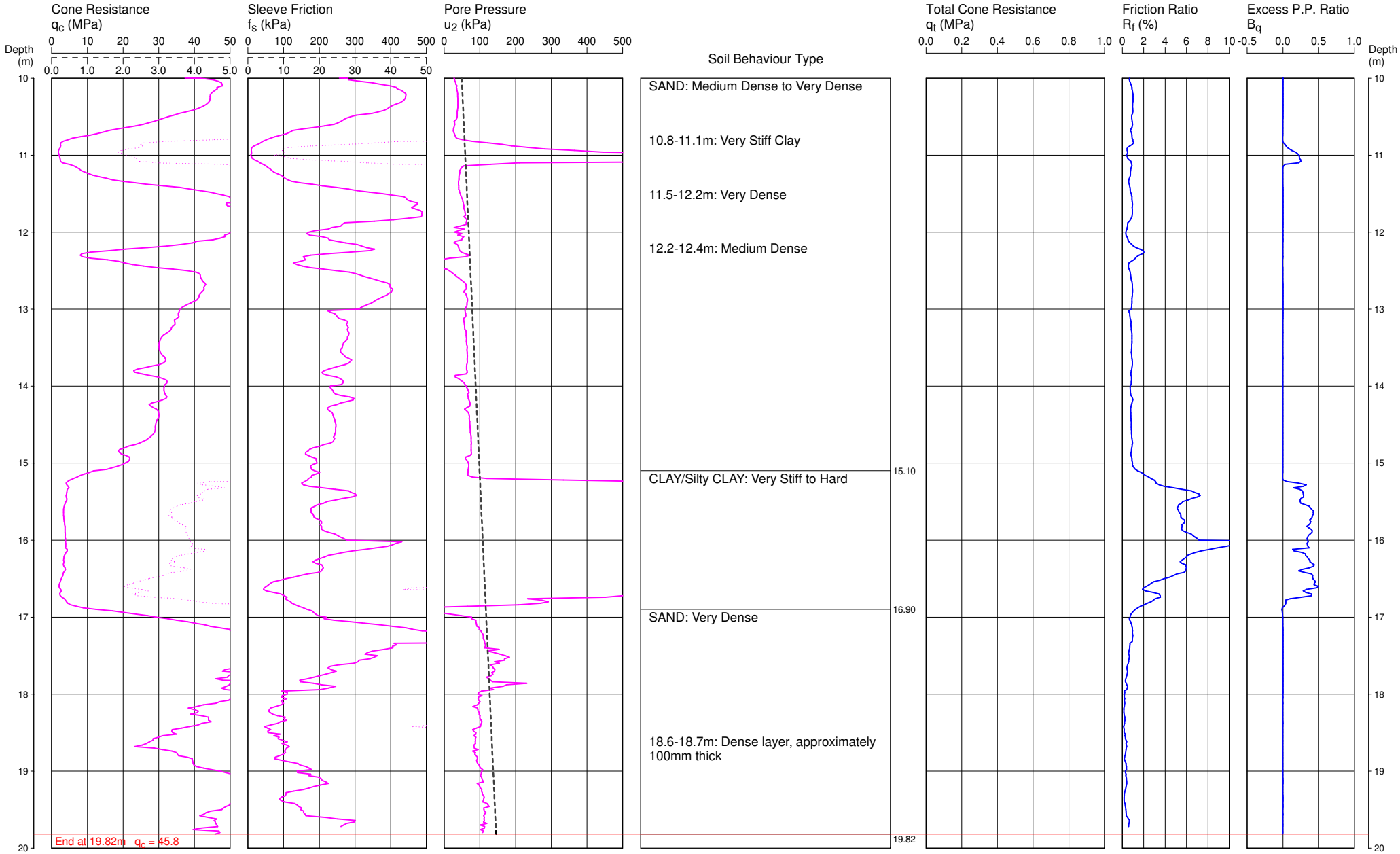
REDUCED LEVEL: 9.8

COORDINATES: 334757.4E 6241708.7N GDA2020

CPT119

DATE 08/08/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.16M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. GROUNDWATER OBSERVED AT 5.0M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT119.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 5.00m depth (measured)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

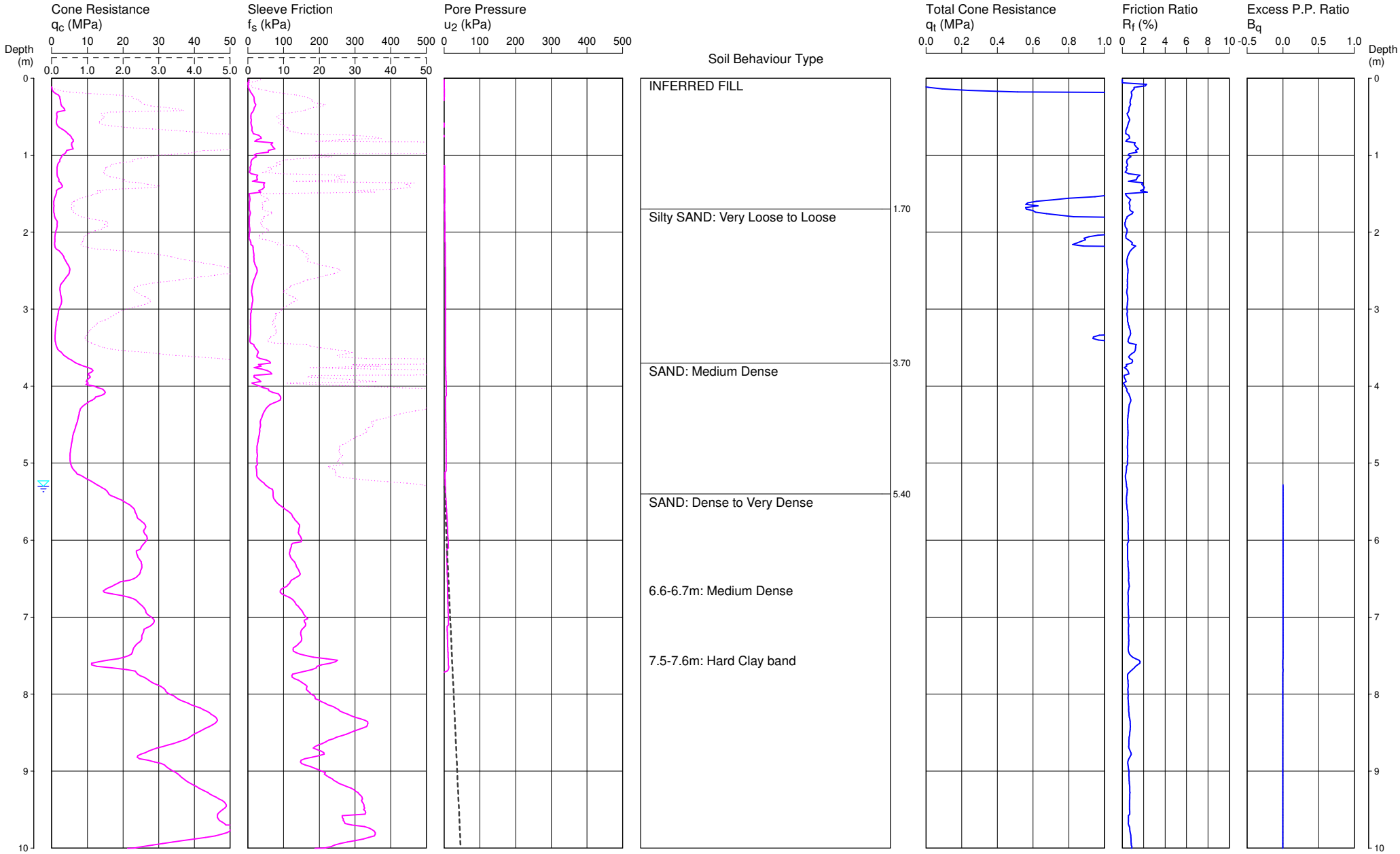
REDUCED LEVEL: 10.0

COORDINATES: 334754.2E 6241679.3N GDA2020

CPT120

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.13M. TEST DISCONTINUED DUE TO BENDING RIVETY DENSE SAND. File: I:\BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT120.CP5
GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS.

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

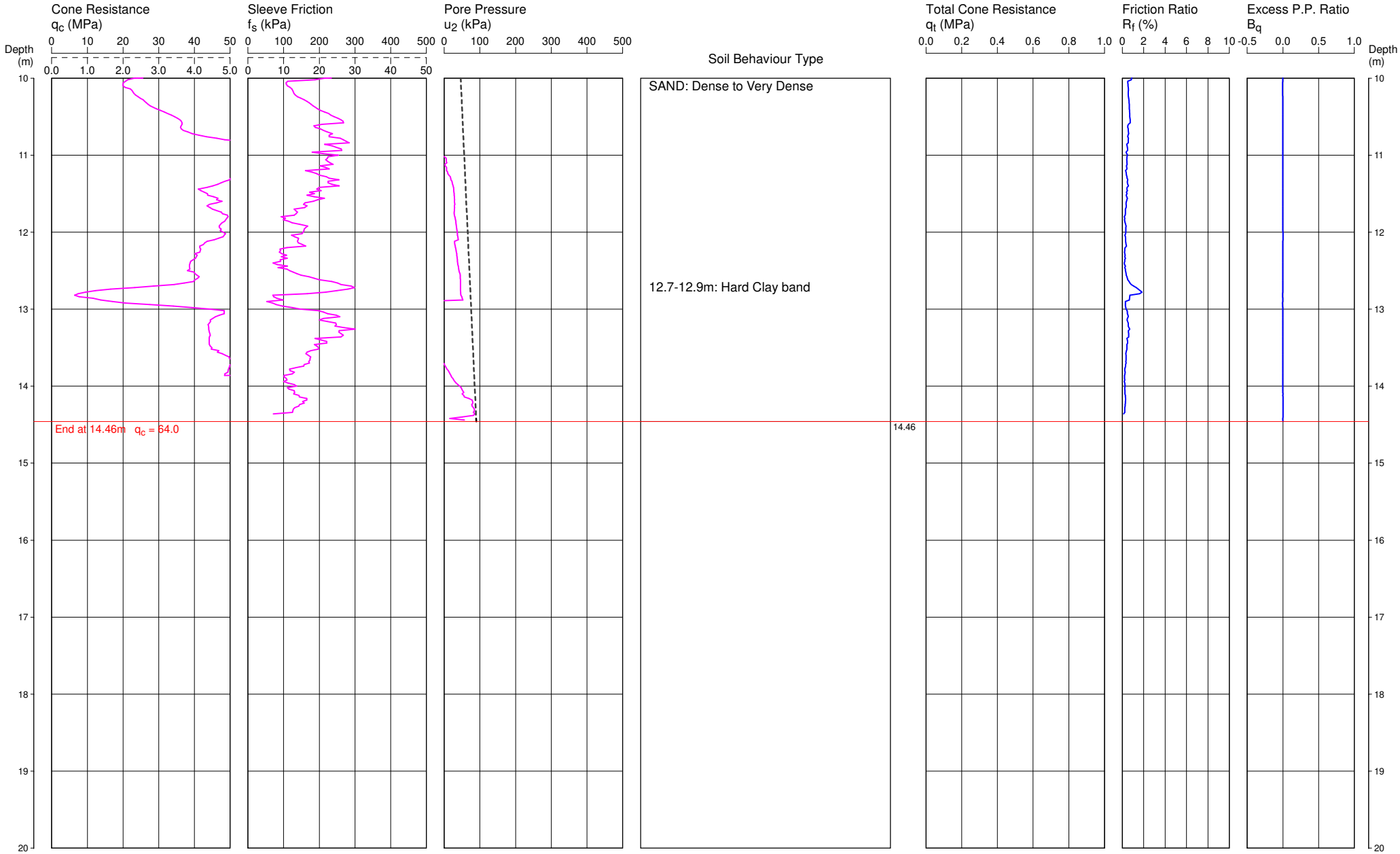
REDUCED LEVEL: 10.0

COORDINATES: 334754.2E 6241679.3N GDA2020

CPT120

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: CONCRETE TO 0.13M. TEST DISCONTINUED DUE TO BENDING RIVERINA DENSE SAND
GROUNDWATER OBSERVED AT 5.3M AFTER WITHDRAWAL OF RODS

File: I:\NEWCASTLE\Projects\219609.02 BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT120.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.30m depth (assumed)

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

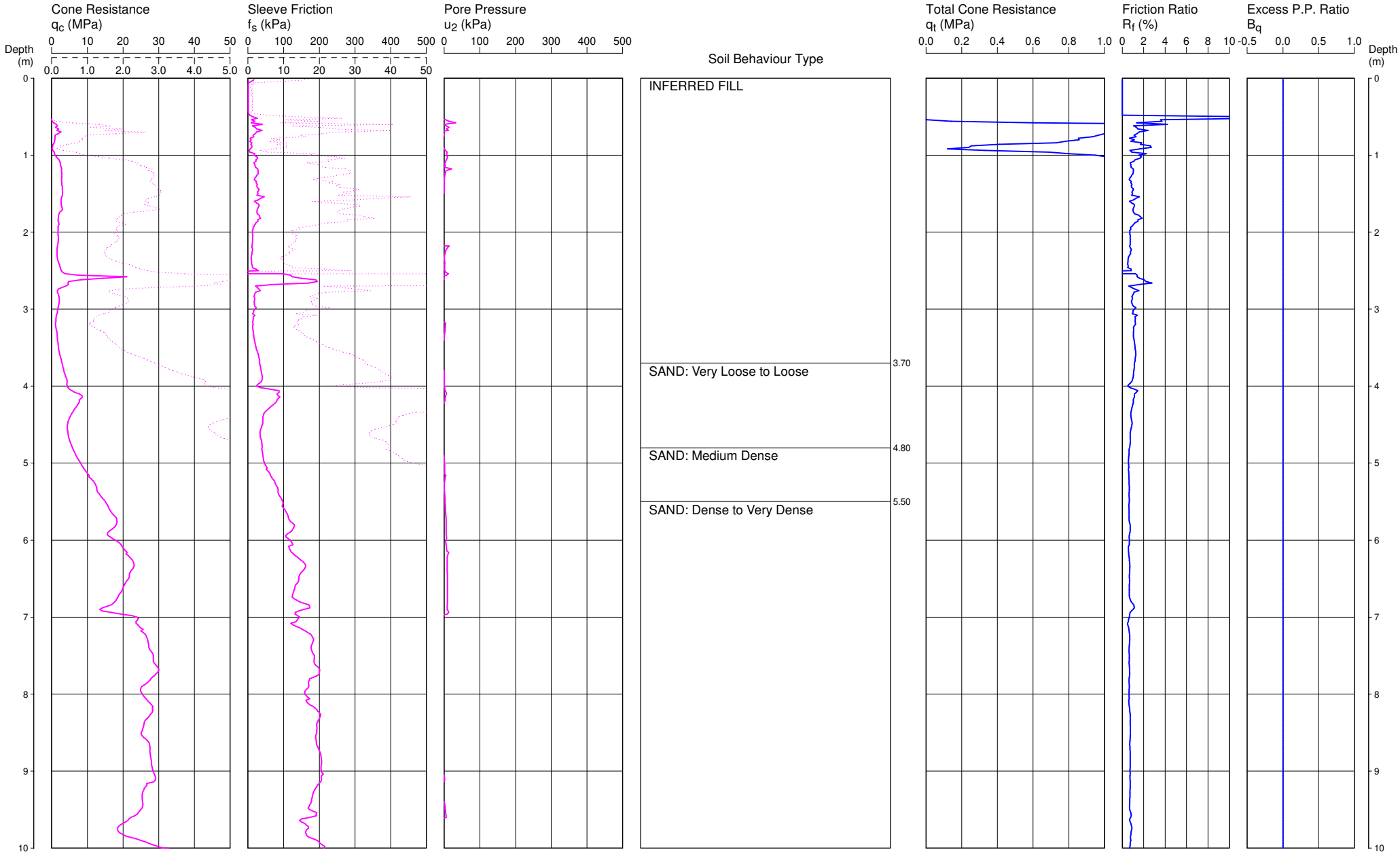
REDUCED LEVEL: 9.7

COORDINATES: 334758.5E 6241647.5N GDA2020

CPT121

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: DUMMY CONE TO 1.5M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. HOLE COLLAPSED AT 3.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT121.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

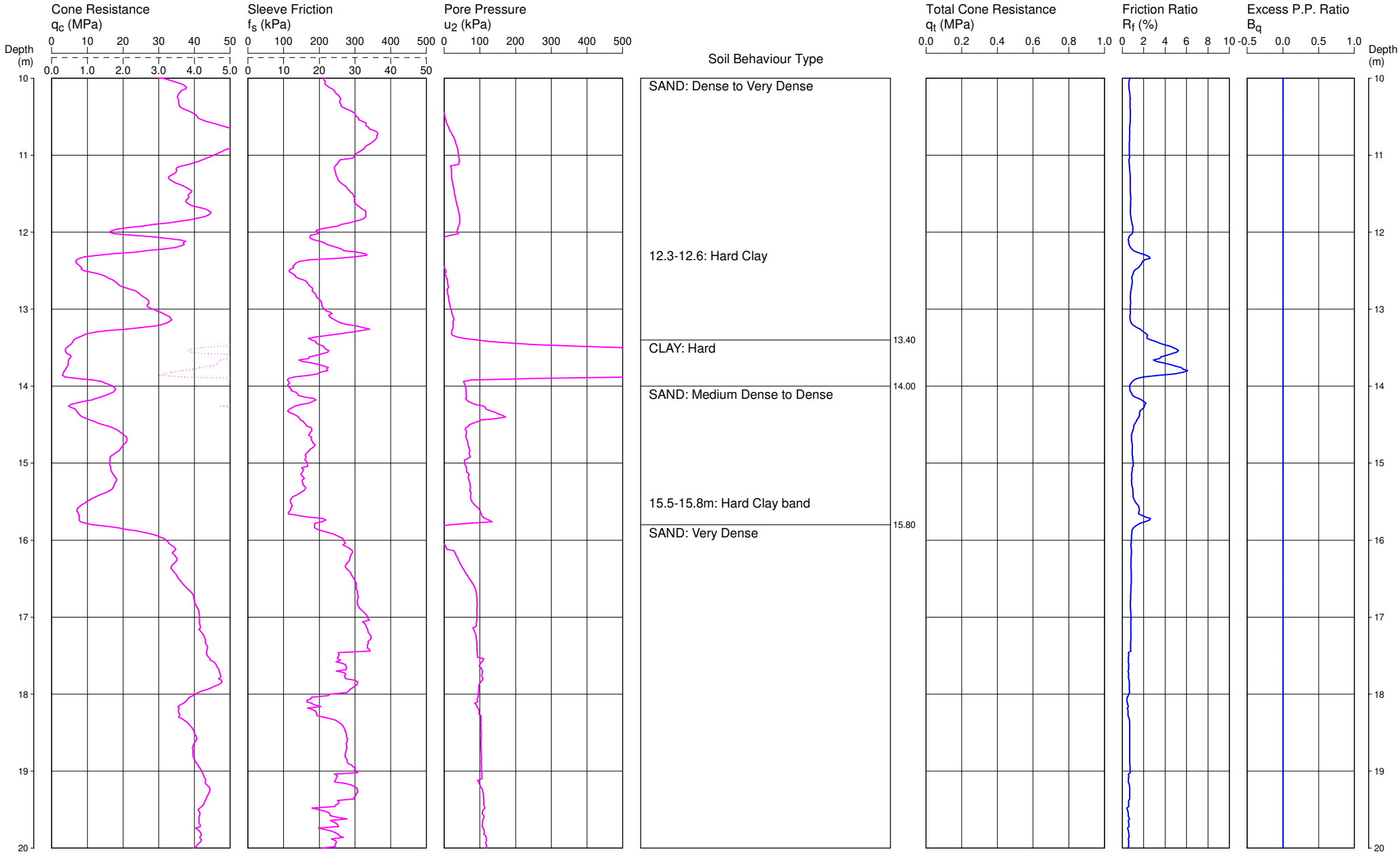
REDUCED LEVEL: 9.7

COORDINATES: 334758.5E 6241647.5N GDA2020

CPT121

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: DUMMY CONE TO 1.5M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. HOLE COLLAPSED AT 3.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 BANKSMEADOW - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT121.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

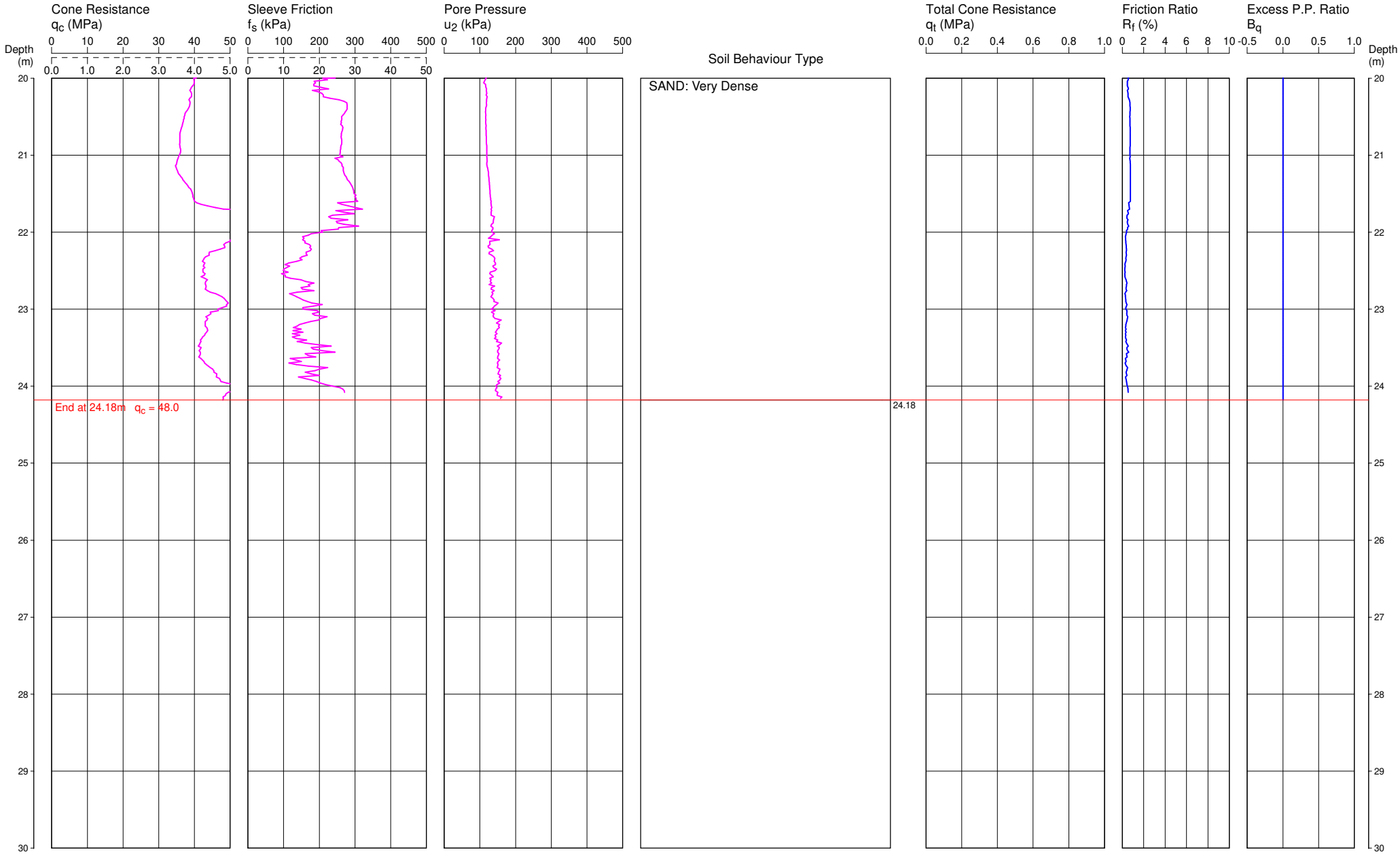
REDUCED LEVEL: 9.7

COORDINATES: 334758.5E 6241647.5N GDA2020

CPT121

DATE 04/08/2023

PROJECT No: 219609.02



REMARKS: DUMMY CONE TO 1.5M. TEST DISCONTINUED DUE TO EXCESSIVE FRICTION. HOLE COLLAPSED AT 3.4M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 BANKSMEADOW - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT121.CP5

Cone ID: 200310 **Type:** I-CFXYP20-10

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

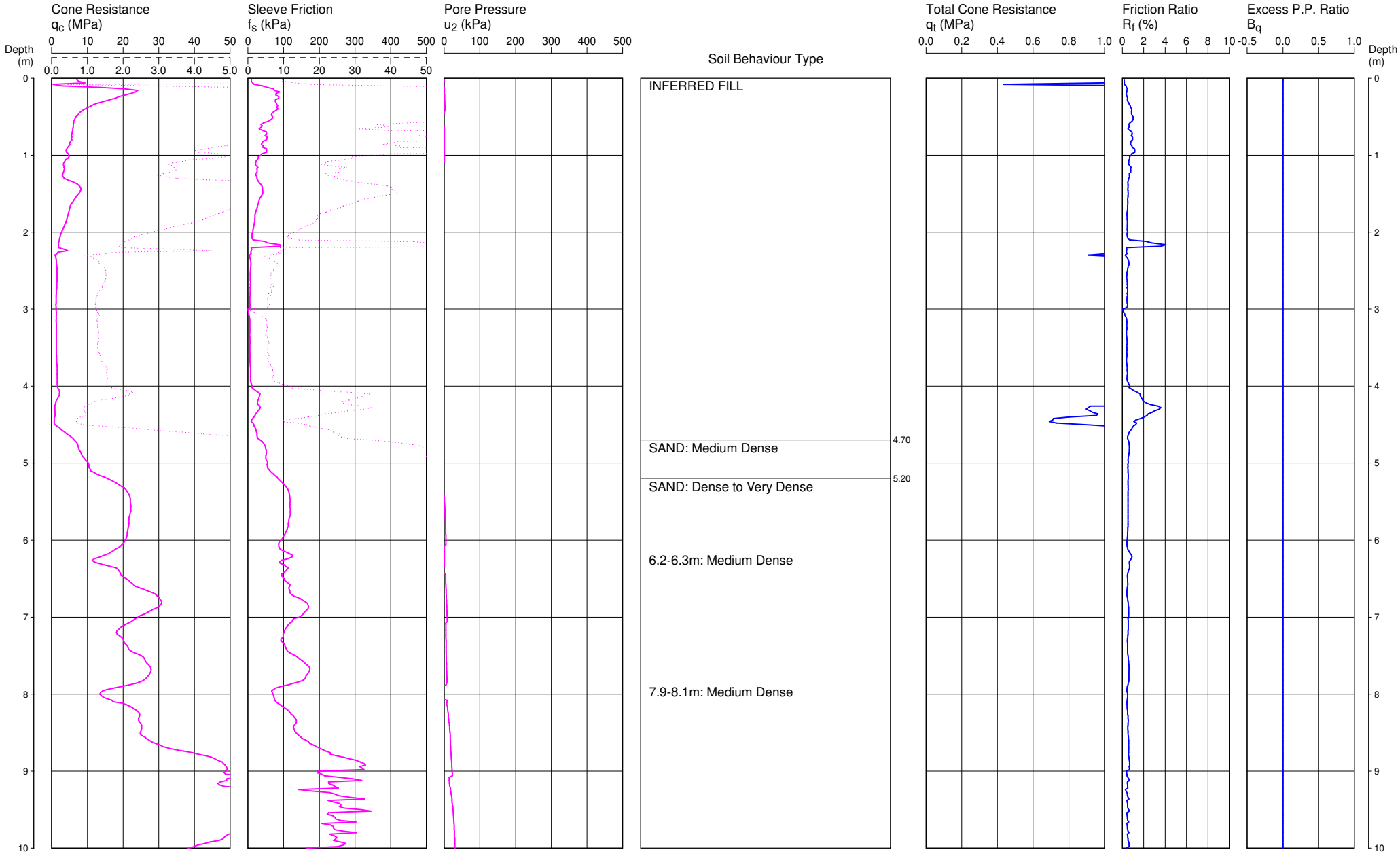
REDUCED LEVEL: 8.9

COORDINATES: 334760.0E 6241577.5N GDA2020

CPT122

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT122.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

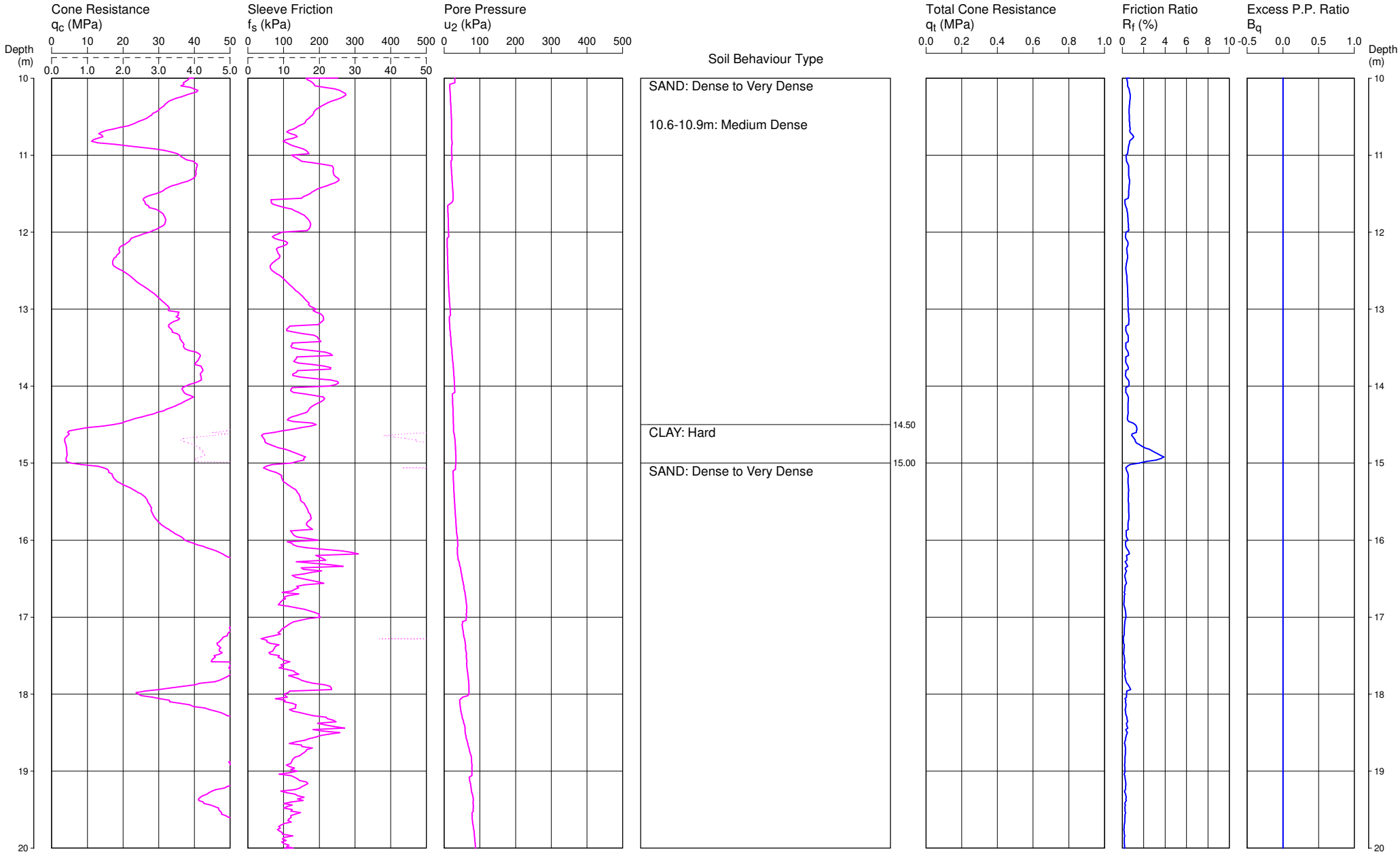
REDUCED LEVEL: 8.9

COORDINATES: 334760.0E 6241577.5N GDA2020

CPT122

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT122.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

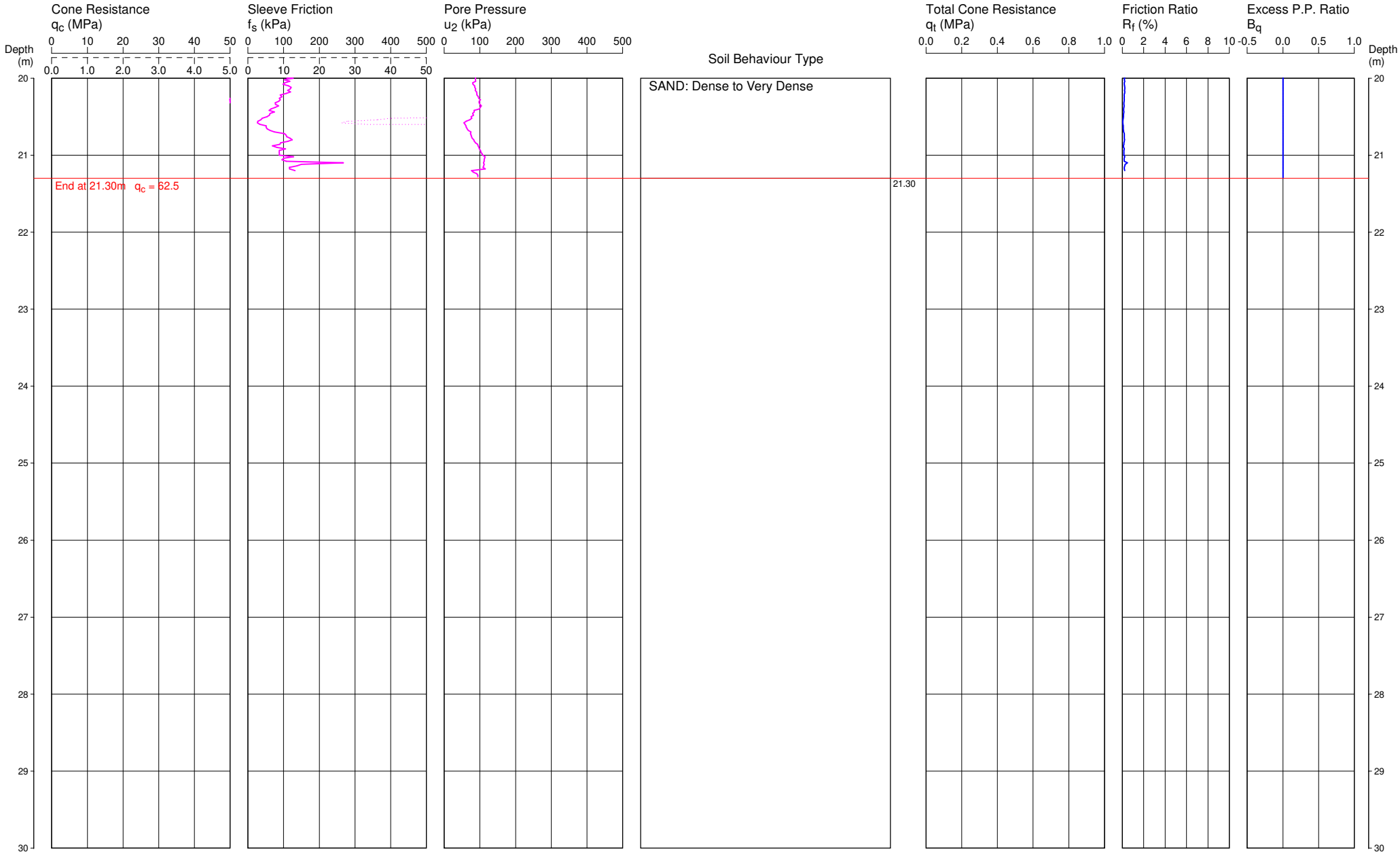
REDUCED LEVEL: 8.9

COORDINATES: 334760.0E 6241577.5N GDA2020

CPT122

DATE 01/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. HOLE COLLAPSED AT 4.6M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT122.CP5
Cone ID: 210410 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

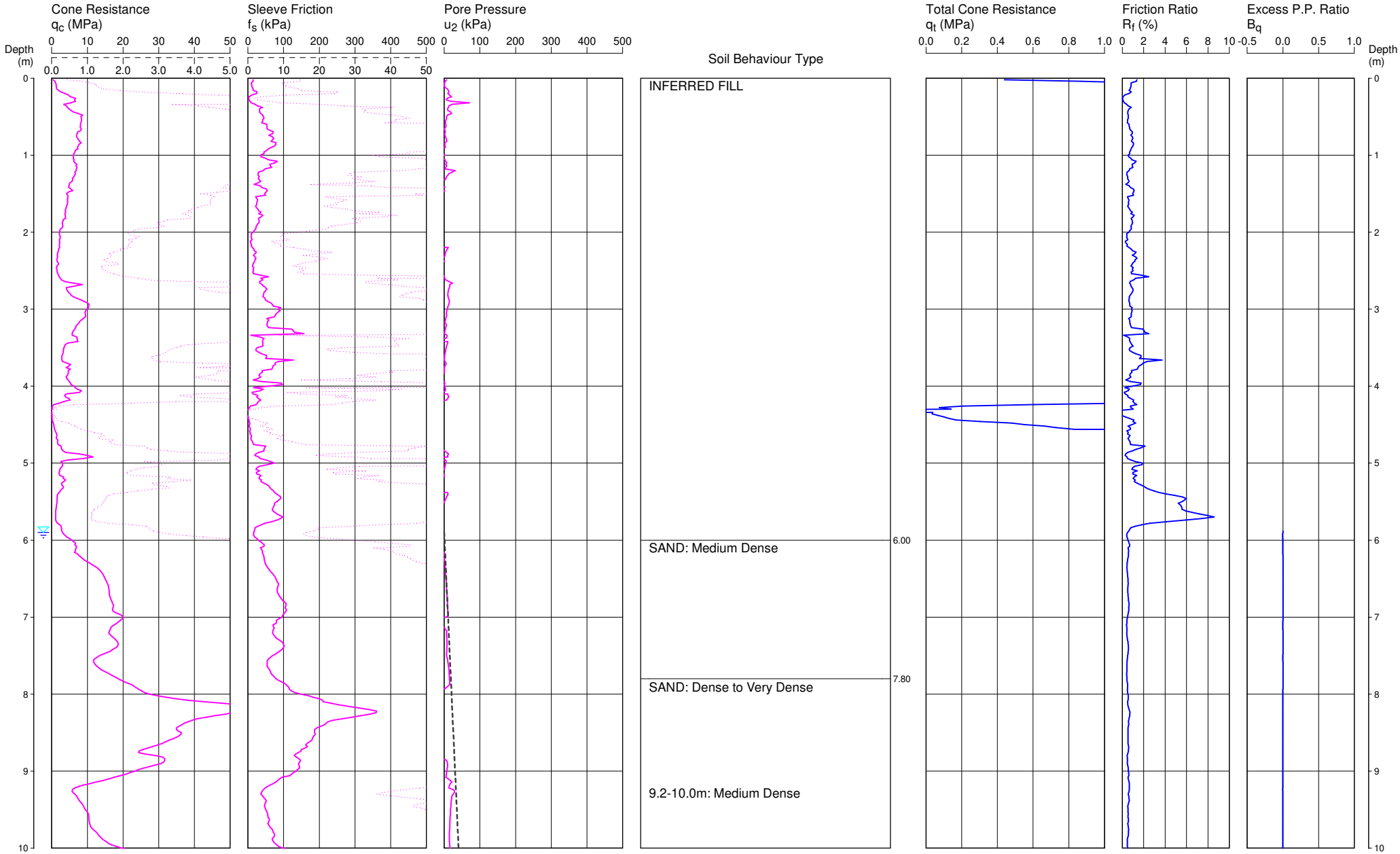
REDUCED LEVEL: 10.1

COORDINATES: 334781.4E 6241632.4N GDA2020

CPT123

DATE 09/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 5.9M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT123.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.90m depth (assumed)

ConePlot Version 5.9.2
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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

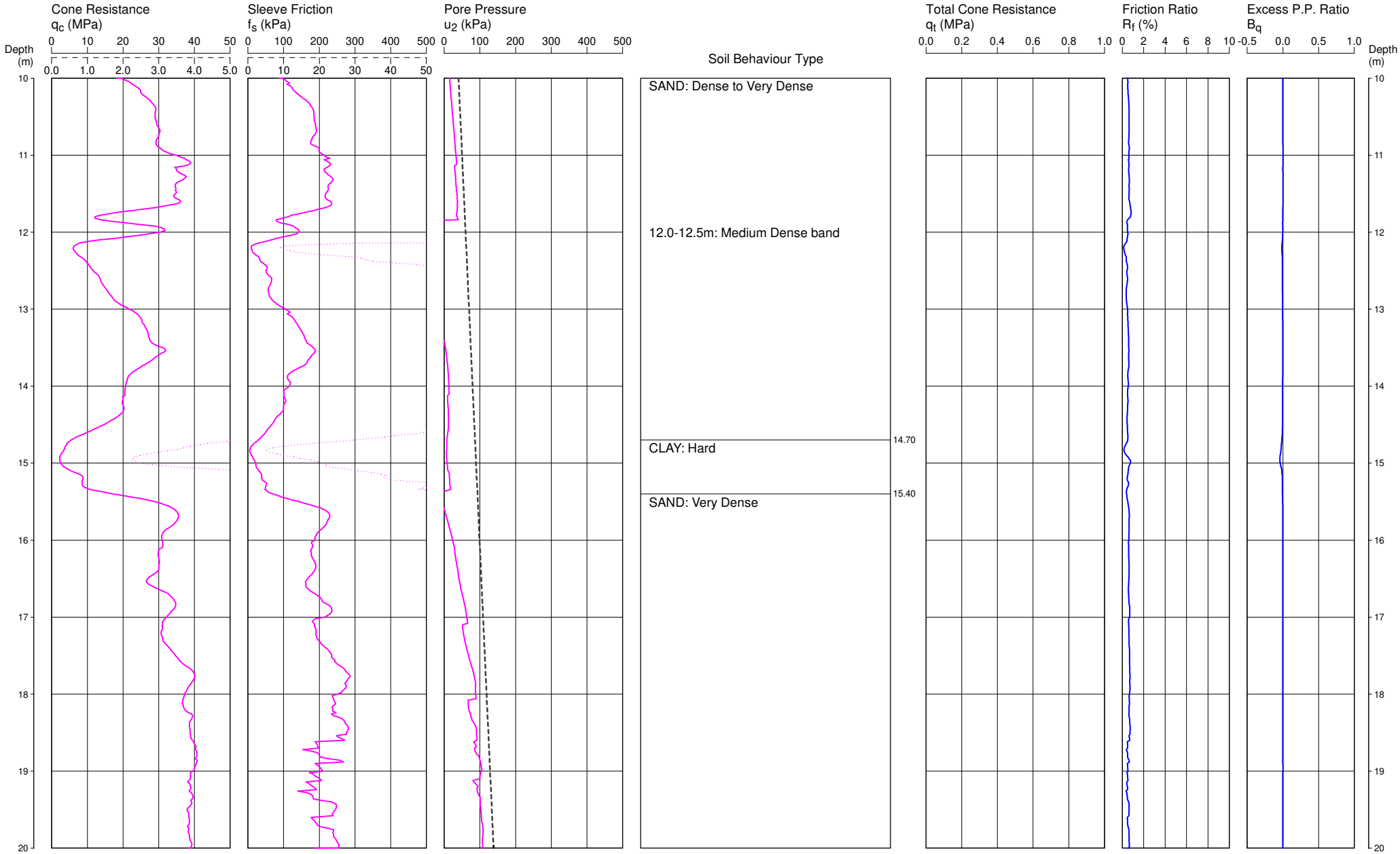
REDUCED LEVEL: 10.1

COORDINATES: 334781.4E 6241632.4N GDA2020

CPT123

DATE 09/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 5.9M AFTER WITHDRAWAL OF RODS

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT123.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.90m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

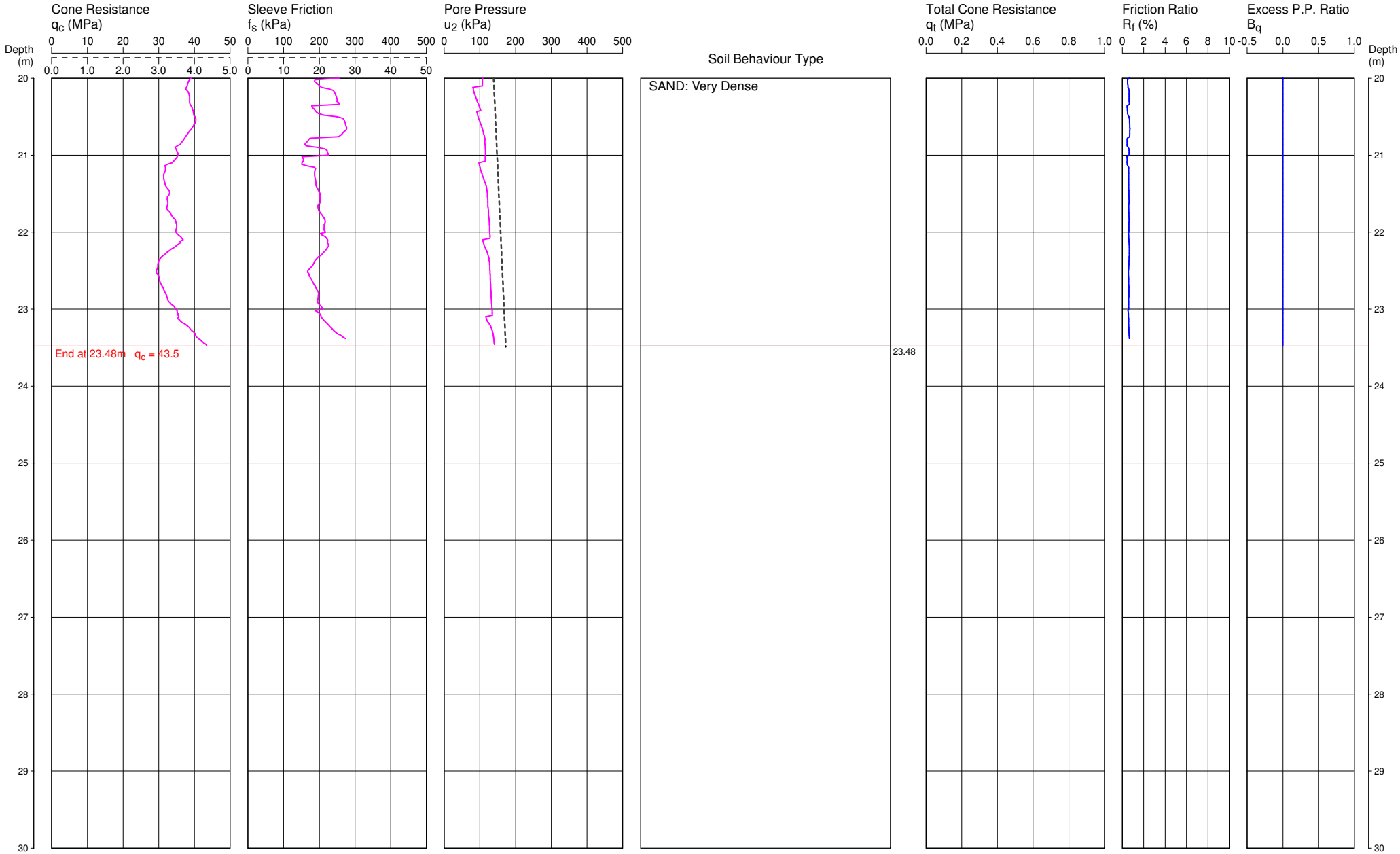
REDUCED LEVEL: 10.1

COORDINATES: 334781.4E 6241632.4N GDA2020

CPT123

DATE 09/08/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 5.9M AFTER WITHDRAWAL OF RODS.

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT123.CP5

Cone ID: 210410 **Type:** I-CFXYP20-10

Water depth after test: 5.90m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

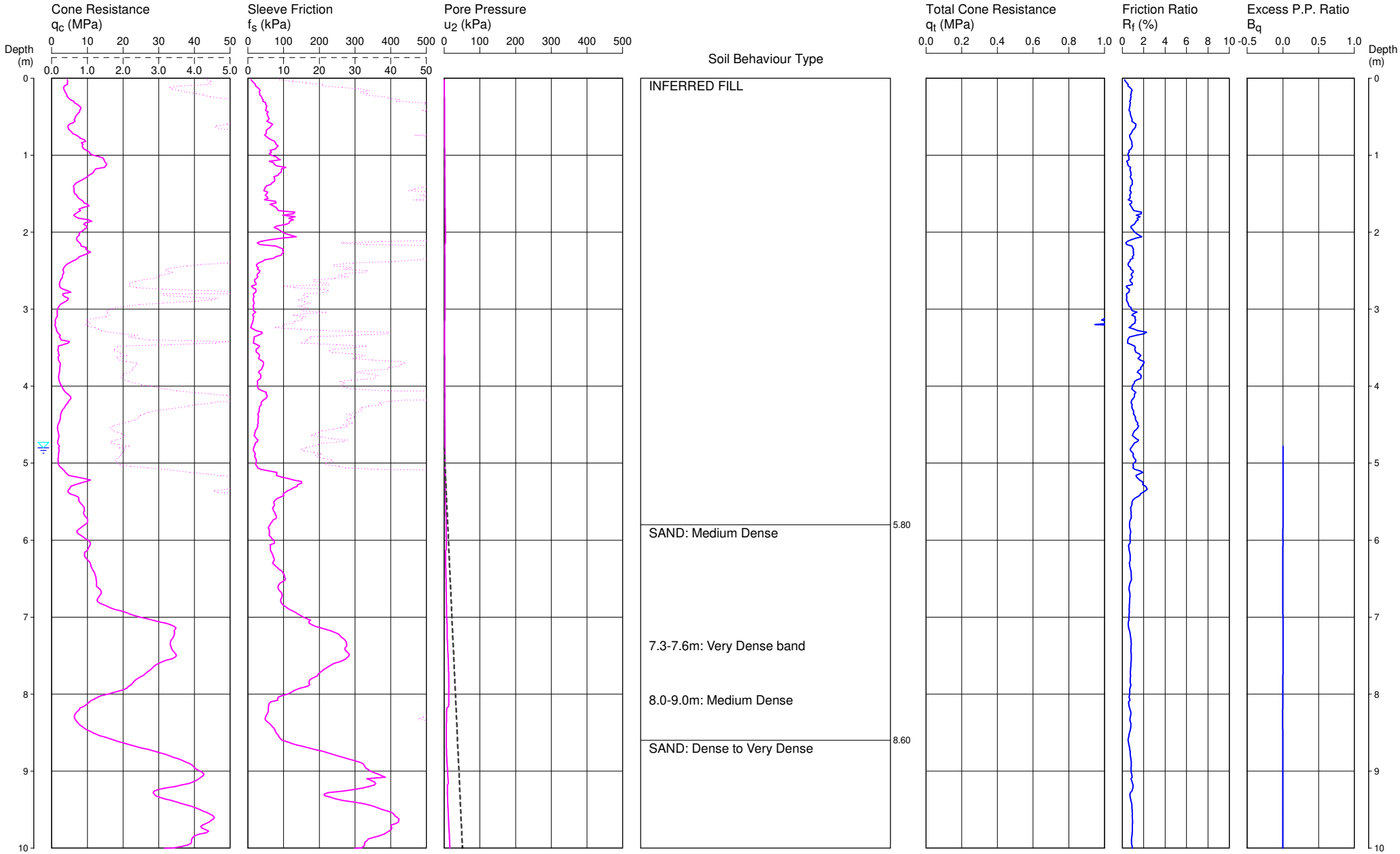
REDUCED LEVEL: 8.7

COORDINATES: 334790.3E 6241579.7N GDA2020

CPT124

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 4.8M AFTER WITHDRAWAL OF RODS

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT124.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 4.80m depth (assumed)

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

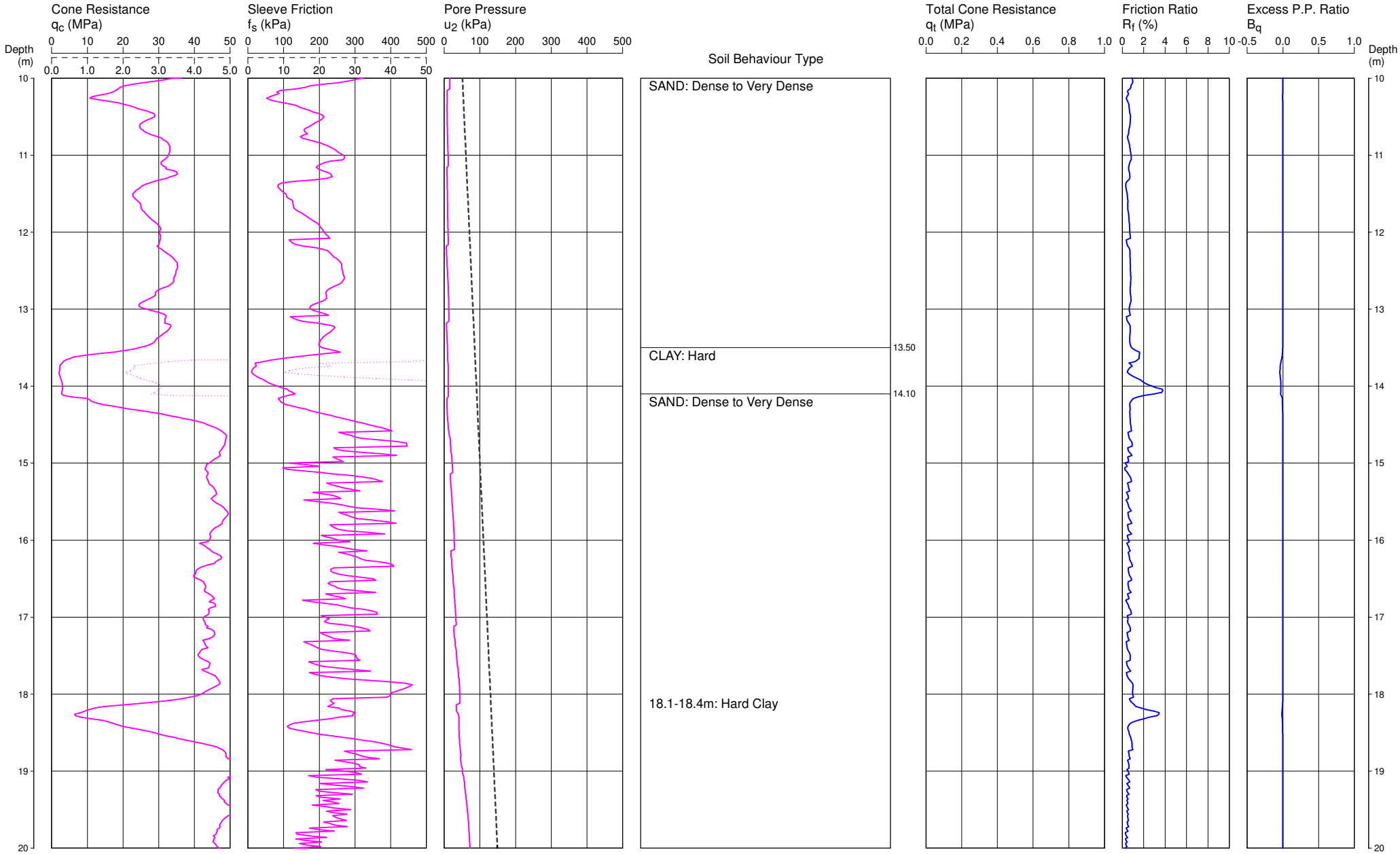
REDUCED LEVEL: 8.7

COORDINATES: 334790.3E 6241579.7N GDA2020

CPT124

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 4.8M AFTER WITHDRAWAL OF RODS

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT124.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 4.80m depth (assumed)

ConePlot Version 5.9.2

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

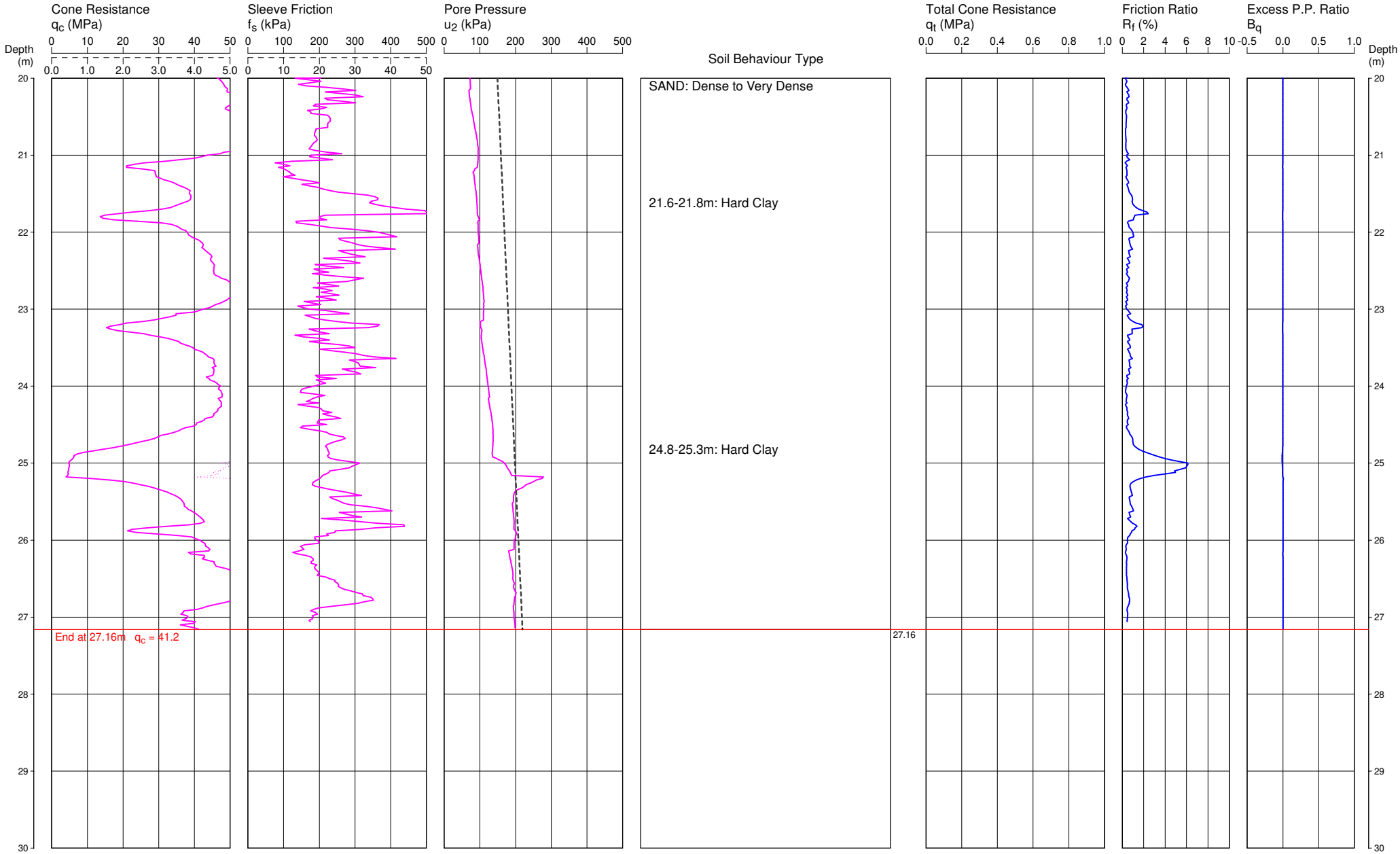
REDUCED LEVEL: 8.7

COORDINATES: 334790.3E 6241579.7N GDA2020

CPT124

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO EXCESSIVE ROD BOWING. GROUNDWATER OBSERVED AT 4.8M AFTER WITHDRAWAL OF RODS

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT124.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

Water depth after test: 4.80m depth (assumed)

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CONE PENETRATION TEST

CLIENT: ESR AUSTRALIA

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: 49-61 STEPHEN ROAD, BANKSMEADOW

REDUCED LEVEL: 8.7

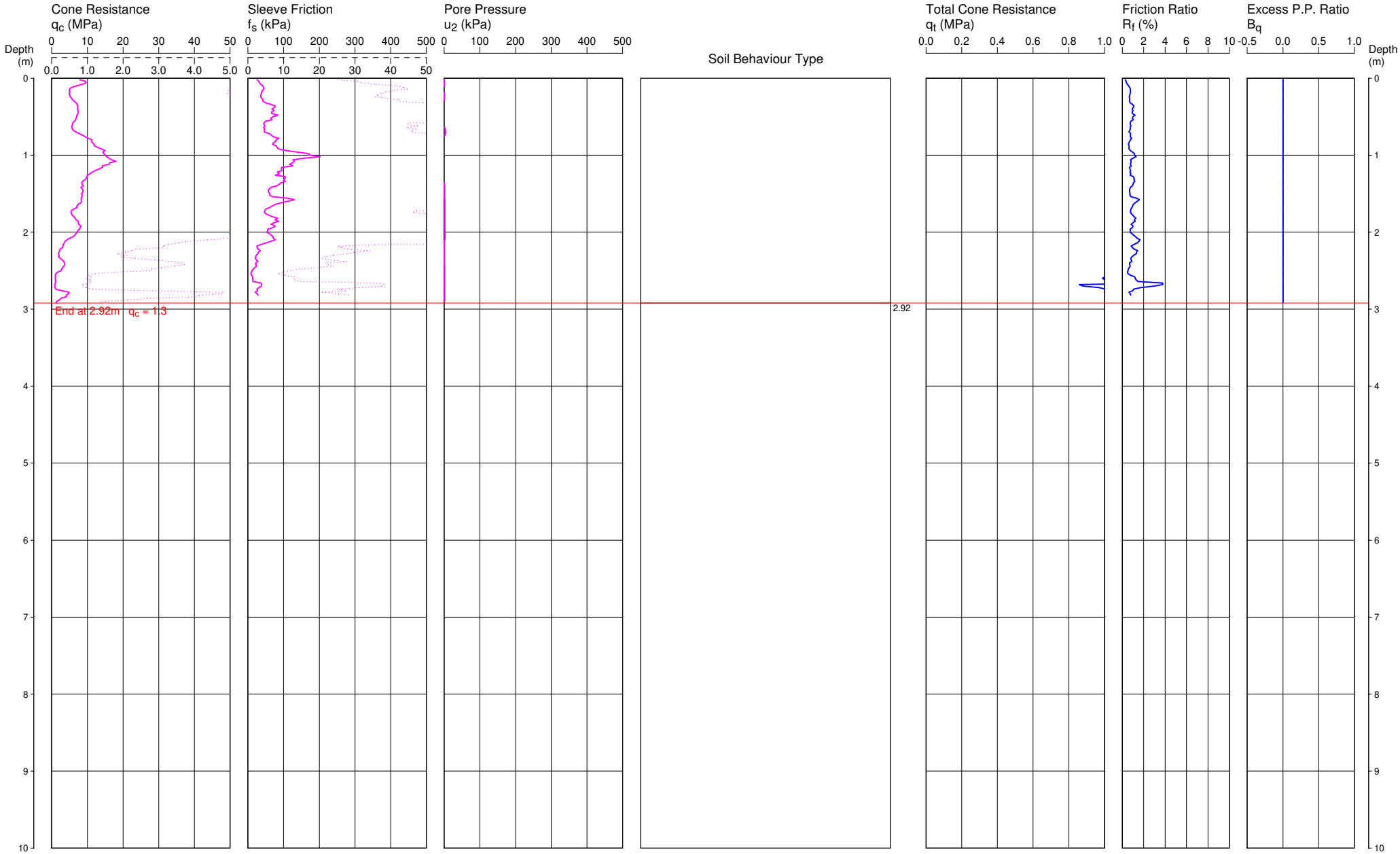
COORDINATES: 334790.3E 6241579.7N GDA2020

CPT124

Page 1 of 1

DATE 31/07/2023

PROJECT No: 219609.02



REMARKS: TEST DISCONTINUED DUE TO BENDING ON FILLING.
NO GROUNDWATER OBSERVED AFTER WITHDRAWAL OF ROD

File: P:\219609.02 - BANKSMEADOW, 49 Stephen Road, Geo\4.0 Field Work\4.2 Testing\CP5 Files\CPT124BB.CP5

Cone ID: 210732 **Type:** I-CFXYP20-10

ConePlot Version 5.9.2

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Cone Penetration Testing

November 2023

Introduction

The Cone Penetration Test (CPT) is a sophisticated soil profiling test carried out in-situ. A special cone shaped probe is used which is connected to a digital data acquisition system. The cone and adjoining sleeve section contain a series of strain gauges and other transducers which continuously monitor and record various soil parameters as the cone penetrates the soils.

The soil parameters measured depend on the type of cone being used, however they always include the following basic measurements

- Cone tip resistance q_c
- Sleeve friction f_s
- Inclination (from vertical) i
- Depth below ground z

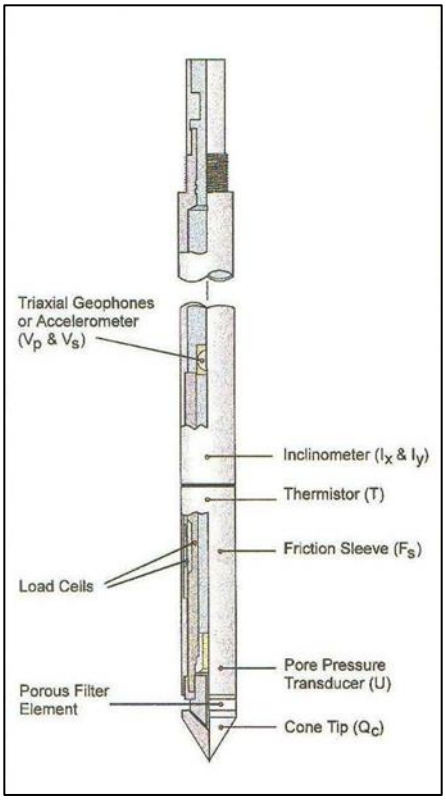

Figure 1: Cone Diagram

The inclinometer in the cone enables the verticality of the test to be confirmed and, if required, the vertical depth can be corrected.

The cone is thrust into the ground at a steady rate of about 20 mm/sec, usually using the hydraulic rams of a purpose built CPT rig, or a drilling rig. The testing is carried out in accordance with the Australian Standard AS1289 Test 6.5.1.

Figure 2: Purpose built CPT rig

The CPT can penetrate most soil types and is particularly suited to alluvial soils, being able to detect fine layering and strength variations. With sufficient thrust the cone can often penetrate a short distance into weathered rock. The cone will usually reach refusal in coarse filling, medium to coarse gravel and on very low strength or better rock. Tests have been successfully completed to more than 60 m.

Types of CPTs

Douglas Partners (and its subsidiary GroundTest) owns and operates the following types of CPT cones:

Type	Measures
Standard	Basic parameters (qc, fs, i & z)
Piezocone	Dynamic pore pressure (u) plus basic parameters. Dissipation tests estimate consolidation parameters
Conductivity	Bulk soil electrical conductivity (□) plus basic parameters
Seismic	Shear wave velocity (Vs), compression wave velocity (Vp), plus basic parameters

Strata Interpretation

The CPT parameters can be used to infer the Soil Behaviour Type (SBT), based on normalised values of cone resistance (Qt) and friction ratio (Fr). These are used in conjunction with soil classification charts, such as the one below (after Robertson 1990)

Cone Penetration testing

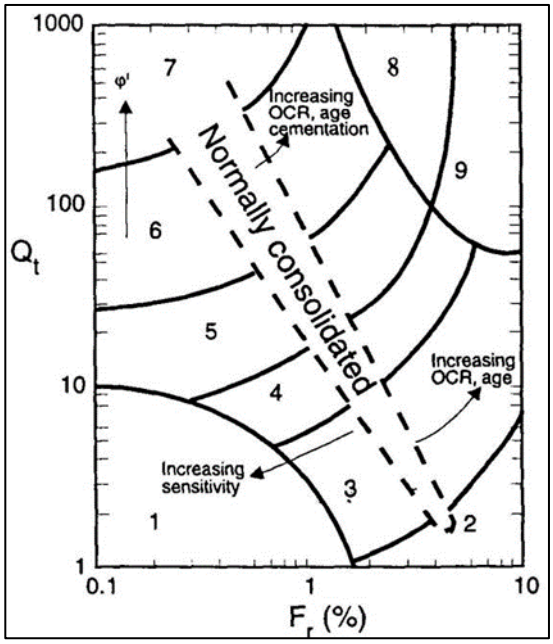

Figure 3: Soil Classification Chart

DP's in-house CPT software provides computer aided interpretation of soil strata, generating soil descriptions and strengths for each layer. The software can also produce plots of estimated soil parameters, including modulus, friction angle, relative density, shear strength and over consolidation ratio.

DP's CPT software helps our engineers quickly evaluate the critical soil layers and then focus on developing practical solutions for the client's project.

Engineering Applications

There are many uses for CPT data. The main applications are briefly introduced below:

Settlement

CPT provides a continuous profile of soil type and strength, providing an excellent basis for settlement analysis. Soil compressibility can be estimated from cone derived moduli, or known consolidation parameters for the critical layers (eg. from laboratory testing). Further, if pore pressure dissipation tests are undertaken using a piezocone, in-situ consolidation coefficients can be estimated to aid analysis.

Pile Capacity

The cone is, in effect, a small scale pile and, therefore, ideal for direct estimation of pile capacity. DP's in-house program ConePile can analyse most pile types and produces pile capacity versus depth plots. The analysis methods are based on proven static theory and empirical studies, taking account of scale effects, pile materials and method of installation.

The results are expressed in limit state format, consistent with the Piling Code AS2159.

Dynamic or Earthquake Analysis

CPT and, in particular, Seismic CPT are suitable for dynamic foundation studies and earthquake response analyses, by profiling the low strain shear modulus G0. Techniques have also been developed relating CPT results to the risk of soil liquefaction.

Other Applications

Other applications of CPT include ground improvement monitoring (testing before and after works), salinity and contaminant plume mapping (conductivity cone), preloading studies and verification of strength gain.

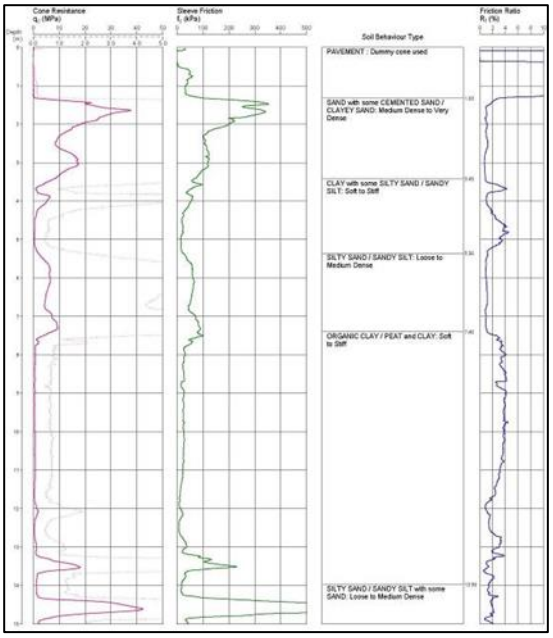

Figure 4: Sample Cone Plot

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Appendix I3

Field Results Summary Tables

Table I3-1: Summary of Groundwater Levels Recorded During Sampling

Groundwater Well	Sampling Date	RL (m AHD)	Pre-Development Groundwater Level (m bgl)	Pre-Development Groundwater Level (m AHD)	Pre-Sampling Groundwater Level (m bgl)	Pre-Sampling Groundwater Level (m AHD)
209	21-09-23	10.07	5.82	4.25	6.76	3.31
	08-11-23		7.34	2.73	6.89	3.18
210	21-09-23	8.71	4.44	4.27	5.55	3.16
	08-11-23		5.94	2.77	5.56	3.15
305	29-09-23	10.04	5.08	4.96	5.09	4.95
305	21-09-23	9.96	5.2	4.76	5.24	4.72
307	21-09-23	10.12	5.15	4.97	5.15	4.97
	10-11-23		5.26	4.86	5.18	4.94
311	20-09-23	9.93	5.45	4.48	5.5	4.43
331	21-09-23	10.04	5.9	4.14	5.93	4.11
	08-11-23		5.99	4.05	5.92	4.12
334	21-09-23	8.75	5.31	3.44	5.39	3.36
	08-11-23		5.49	3.26	5.35	3.4
338	21-09-23	9.89	5.1	4.79	5.16	4.73
	09-11-23		5.23	4.66	5.1	4.79
JBMW01	20-09-23	9.82	5.07	4.75	5.06	4.76
JBMW03	21-09-23	10	5.27	4.73	5.41	4.59
JBMW04	21-09-23	9.98	5.31	4.67	5.34	4.64
JBMW05	21-09-23	9.87	5.46	4.41	5.51	4.36
	08-11-23		5.56	4.31	5.45	4.42
JBMW06	20-09-23	9.9	5.55	4.35	5.57	4.33
	09-11-23		5.72	4.18	5.62	4.28
JBMW07	20-09-23	9.92	5.55	4.37	5.57	4.35
	09-11-23		5.68	4.24	5.61	4.31
JBMW10	20-09-23	9.8	5.37	4.43	5.38	4.42
JBMW11	10-11-23	9.94	5.66	4.28	5.68	4.26
JBMW12	21-09-23	9.08	5.01	4.07	5.1	3.98
	08-11-23		5.1	3.98	5.07	4.01
JBMW13	20-09-23	9.73	5.65	4.08	5.64	4.09
	08-11-23		5.75	3.98	5.58	4.15
MW09	09-11-23	9.97	5.25	4.72	5.23	4.74
MW11	20-09-23	9.89	5.53	4.36	5.49	4.4
MW18	10-11-23	10.03	5.22	4.81	5.13	4.9
MW32-S	09-11-23	9.99	5.27	4.72	5.25	4.74
MW40-S	22-09-23	9.83	5.5	4.33	5.56	4.27
	09-11-23		5.6	4.23	5.57	4.26
MW40-D	22-09-23	9.83	5.51	4.32	5.65	4.18
MW41-S	22-09-23	9.83	5.43	4.4	5.59	4.24
MW41-D	22-09-23	9.83	5.49	4.34	5.58	4.25
WG229-S	22-09-23	10.19	-	-	5.84	4.35
WG229-D	22-09-23	10.19	-	-	7.5	2.69
WG230-S	22-09-23	9.8	-	-	5.41	4.39
WG233-I	22-09-23	9.78	-	-	6.7	3.08
WG233-D	22-09-23	9.78	-	-	6.68	3.1

Notes: bgl = below ground level at the time of sampling.
AHD = Australian Height Datum
Orica wells (WG229, WG230, WG233) not subject to development and hence no pre-development groundwater level recorded for these wells.

Table I3-2: Summary of Groundwater Field Parameters Recorded During Sampling

Groundwater Well	Sample Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Electrical Conductivity (µS/cm)	pH (units)	Redox (mV)	Turbidity (NTU)
209	21-09-23	20.7	-0.15	553	5.01	31	48.23
	08-11-23	20.5	0.13	330.2	5.97	-51.2	21.44
210	21-09-23	20.7	-0.07	411.1	4.72	100.1	44.23
	08-11-23	21.1	0.02	230.6	4.87	8.7	42.85
302	29-09-23	19.4	0.86	550	5.22	101.3	28.2
305	21-09-23	19.9	0.22	629	6.51	0.4	43.2
307	21-09-23	20.2	0.01	919	6.19	-0.6	51.21
	10-11-23	20.2	0.1	585	6.15	6.6	43.55
311	20-09-23	21.1	0.13	317.3	5.76	89.4	28.4
331	21-09-23	20.3	-0.16	567	6.09	-40.2	595.03
	08-11-23	20.5	0.25	503	5.98	-9.9	80.4
334	21-09-23	20.3	-0.08	1422	6.55	-4.5	18.26
	08-11-23	20.6	0.04	1084	6.47	11	80.59
338	21-09-23	19.6	0.18	89.5	5.01	-41.1	53.5
	09-11-23	20.5	0.9	86.2	5.37	62.8	33.45
JBMW01	20-09-23	19.4	1.13	172.4	6.62	-0.4	26.7
JBMW03	21-09-23	22.4	-0.17	5243	7.07	-42.7	379.09
JBMW04	21-09-23	21.2	5.55	248.8	6.58	-16.2	22.45
JBMW05	21-09-23	20.1	0.18	664	6.2	7.5	41.83
	08-11-23	20.8	0.17	780	6.31	-45.5	21.34
JBMW06	20-09-23	20.4	0.03	343.4	5.82	-24	31.7
	09-11-23	20.3	0.02	425.3	5.7	65.8	22.41
JBMW07	20-09-23	20.4	0.09	407.2	5.93	-31	14.7
	09-11-23	20.3	0.02	294.8	5.63	37.6	19.22
JBMW10	20-09-23	20.2	0.18	435.7	6.06	33.9	21.2
JBMW11	10-11-23	20.9	0.18	160.7	5.8	-18.5	21.81
JBMW12	21-09-23	20	0.01	256.8	5.91	9.6	32.16
	08-11-23	20.7	0.03	215.3	5.95	-52.1	15.72
JBMW13	20-09-23	21.6	0.15	244.1	5.83	-42.8	29.8
	08-11-23	21.4	0.09	218.6	5.88	8.1	11.22
MW09	09-11-23	21	0.13	380.6	5.93	142.7	23.55
MW11	20-09-23	21.4	0.13	288.4	6.23	9	29.8
MW18	10-11-23	20.9	0.13	360.9	5.95	-67.8	17.55
MW32S	09-11-23	21.1	0.12	532	6.27	68.6	86.22
MW40-S	22-09-23	20.4	-0.03	469.8	6	25.6	63.88
	09-11-23	20.8	0.15	332.4	5.99	24	788.6
MW40-D	22-09-23	20.7	-0.16	934	5.28	-15.2	47.63
MW41-S	22-09-23	20.6	0.19	319.6	5.55	2.1	60.44
MW41-D	22-09-23	20.7	0.04	1214	5.27	63.9	31.24
WG229-S	22-09-23	21	0.02	649	6.66	-26.6	61.35
WG229-D	22-09-23	21.2	0.46	490.9	5.23	77.8	2.36
WG230-S	22-09-23	19.7	3.55	222	5.44	159.6	51.22
WG233-I	22-09-23	21.1	0.16	465.3	5.88	-0.1	22.38
WG233-D	22-09-23	21	0.19	409.9	5.68	24.9	10.21

Table I3-3: Summary of PID and Bulk Gas Screening Results from Wells and Soil Vapour Ports

Well ID	Date	Max PID Screening Result (ppm)	Max Bulk Gas Screening Result Recorded				
			CH4 (% w/w)	CO2 (% w/w)	O2 (% w/w)	H2S (ppm)	CO (ppm)
Groundwater Wells							
209	19-09-23	34	-	-	-	-	-
	08-11-23	3	0	0.2	21.1	0	0
210	19-09-23	9	-	-	-	-	-
	08-11-23	17	0.2	0.9	19.8	0	1
302	21-09-23	1	-	-	-	-	-
305	21-09-23	26	-	-	-	-	-
307	21-09-23	7	-	-	-	-	-
	10-11-23	3	0	0.1	21	0	0
311	20-09-23	<1	-	-	-	-	-
331	21-09-23	1868	-	-	-	-	-
	08-11-23	640	7.6	3.7	17.8	0	0
334	21-09-23	35	-	-	-	-	-
	08-11-23	25	1.7	6.2	14	0	0
338	21-09-23	73	-	-	-	-	-
	09-11-23	32	0.1	1.2	19.1	0	0
JBMW01	20-09-23	<1	-	-	-	-	-
JBMW03	21-09-23	45	-	-	-	-	-
JBMW04	21-09-23	<1	-	-	-	-	-
JBMW05	21-09-23	59	-	-	-	-	-
	08-11-23	20	0.2	0.6	20.2	0	0
JBMW06	20-09-23	1	-	-	-	-	-
JBMW07	20-09-23	3	-	-	-	-	-
	09-11-23	<1	0.1	0.2	21	0	0
JBMW10	20-09-23	<1	-	-	-	-	-
JBMW11	10-11-23	4	0	0.2	21	0	0
JBMW12	21-09-23	12	-	-	-	-	-
	08-11-23	4	0.1	2.7	16.9	0	0
JBMW13	20-09-23	<1	-	-	-	-	-
	08-11-23	3	0.1	4.4	10.8	0	1
MW09	09-11-23	3	0.1	6.2	15.9	0	0
MW11	20-09-23	1	-	-	-	-	-
MW18	10-11-23	5	0.2	2.3	19.2	0	2
MW32-S	09-11-23	4	0.1	5.5	14.6	0	0
MW40-S	22-09-23	<1	-	-	-	-	-
	09-11-23	15	3.2	1.9	16.4	0	0
MW40-D	22-09-23	1	-	-	-	-	-
MW41-S	22-09-23	5	-	-	-	-	-
MW41-D	22-09-23	<1	-	-	-	-	-
WG229-S	22-09-23	5	-	-	-	-	-
WG229-D	22-09-23	2	-	-	-	-	-
WG230-S	22-09-23	2	-	-	-	-	-
WG233-I	22-09-23	2	-	-	-	-	-
WG233-D	22-09-23	4	-	-	-	-	-
Soil Vapour Ports							
301	05-09-23	0.2	0	1.6	20.2	0	0
303	05-09-23	1	0	0.2	20.9	0	0
304	05-09-23	0.7	0	13.6	12	0	0
306	05-09-23	0.8	0	0.2	20.9	0	0
328C	05-09-23	1.1	0.1	3	17	0	0
329B	05-09-23	0.8	0.1	5.5	14.7	0	0
329C	05-09-23	0.6	0	1.8	19.5	0	0
330	05-09-23	0.7	0.1	4.3	16	0	0
332	26-09-23	10.4	0	10.1	13.9	0	0
333	26-09-23	25.7	2.3	11.4	7.1	0	0

Notes: - Bulk ground gases not screened during first round of groundwater sampling in September 2023.
- Screening form groundwater wells typically taken over an approximate 2 minute period.
- Screening from soil vapour ports typically taken over an approximate 15-30 second period.

Appendix I4

Groundwater and Soil Vapour Sampling Field Sheets

Douglas Partners
Geotechnics | Environment | Groundwater

Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP209	Drilling Method		Hole Diameter (m)	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		Refer to 1605 m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	18/9/23, 9.30 Sunny / 14/9/23, 12:00 Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	- / -	mm	Confirmed with Bailer? (Y / N)	Yes / Yes	
GW Level (pre-purge)	5.82 / 6.74	m bgl	Observed Well Depth	14.65 / 14.65	m bgl
Height of Water Column (H)	8.83 / 7.91	m bgl	Estimated Bore Volume*	45 / 41	L
GW Level (post-purge)	6.81 / 7.02	m bgl	Total Volume Purged**	150 / 150	L
Appearance/Comments	Pale Brown, sulphuric odour, high turbidity / Clear/transparent, slightly cloudy, sulphuric odour				

Sampling Details					
Date / Time / Weather Conditions	10.57, 21/9/23, Sunny			Sampled By	DS
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	6.76	m bgl	Observed Well Depth	14.65	m bgl
Height of Water Column	7.87	m bgl	Estimated Bore Volume*	40	L
GW Level (post sample)	6.87	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.7	0.41	542	5.07	44.2	50.42
2	1.0	20.7	-0.06	547	5.01	37.5	53.49
3	1.5	20.7	-0.11	552	5.01	35.2	52.80
4	2.0	20.7	-0.14	553	5.01	33.4	48.46
5	2.5	20.4	-0.16	554	5.01	32.1	49.19
6	3.0	20.7	-0.15	553	5.01	31.0	48.23
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	13.450	m bgl,	Mid screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, slightly cloudy, slight sulphuric odour					
Sample ID	DP209					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	29.1
0.5	34.0
1.0	31.8
1.5	29.2
2.0	29.1

Douglas Partners
Geotechnics / Environment / Groundwater

Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankismeadow				Project Number	94609.01
Well Construction Details	Well ID	DP209	Drilling Method	100	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl	Refer to 100			
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Tullster Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	7.34	m bgl	Observed Well Depth	14.77	m bgl
Height of Water Column (H)	7.43	m bgl	Estimated Bore Volume*	~~30~~ 30	L
GW Level (post-purge)	7.56	m bgl	Total Volume Purged**	100	L
Appearance/Comments	Sulphuric odour, brown, turbidity ~~high~~ low, transparent				

Sampling Details					
Date / Time / Weather Conditions	8/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	6.89	m bgl	Observed Well Depth	14.77	m bgl
Height of Water Column	7.88	m bgl	Estimated Bore Volume*	30	L
GW Level (post sample)	7.00	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.4	2.01	335.0	5.96	-12.8	24.51
2	1.0	20.5	0.95	337.2	5.96	-27.2	23.18
3	1.5	20.5	0.33	338.6	5.97	-40.1	23.00
4	2.0	20.5	0.15	339.7	5.97	-47.3	22.33
5	2.5	20.5	0.14	339.8	5.97	-48.2	21.09
6	3.0	20.5	0.13	339.9	5.97	-50.1	21.94
7	3.5	20.5	0.13	340.2	5.97	-51.2	21.44
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L.			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	13.77	m bgl,	Mid screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, pale brown tinge, sulphuric odour					
Sample ID	DP209					
QAQC Samples	Replicate	BD1/20231108	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP210	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	10 to 9.5	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl	Refer to			
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	11.25, 14/9/23 Sunny / 12:35, 14/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	- / -	mm	Confirmed with Bailer? (Y / N)	Yes / Yes	
GW Level (pre-purge)	4.44/5.61	m bgl	Observed Well Depth	14.07/14.07	m bgl
Height of Water Column (H)	9.63/8.46	m bgl	Estimated Bore Volume*	50 / 44	L
GW Level (post-purge)	5.65 / 5.96	m bgl	Total Volume Purged**	150/150	L
Appearance/Comments	Pale brown, sulphuric odour, low turb / "			"	

Sampling Details					
Date / Time / Weather Conditions	12.00, 21/9/23, sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.55	m bgl	Observed Well Depth	14.07	m bgl
Height of Water Column	8.52	m bgl	Estimated Bore Volume*	240	L
GW Level (post sample)	5.62	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.0	0.66	427.4	4.80	71.9	56.24
2	2.0	20.4	0.17	418.6	4.72	86.4	45.13
3	3.5	20.4	0.03	415.3	4.72	92.6	43.96
4	4.0	20.7	-0.03	413.0	4.72	94.3	45.91
5	2.5	20.7	-0.05	412.3	4.72	98.2	43.68
6	3.0	20.7	-0.07	411.1	4.72	100.1	44.23
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	13	m bgl,	Mid screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale brown, sulphuric odour. off cheese odour					
Sample ID	DP210					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	9.5
0.5	8.5
1.0	8.3
1.5	8.2
2.0	8.2

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankstown Meadow				Project Number	219609.01
Well Construction Details	Well ID	210	Drilling Method		Hole Diameter (m)^	
	Well Depth (m bgl)		Screened (m bgl)	1.0-7	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	2/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.94	m bgl	Observed Well Depth	14.12	m bgl
Height of Water Column (H)	8.18	m bgl	Estimated Bore Volume*	44	L
GW Level (post-purge)		m bgl	Total Volume Purged**	135	L
Appearance/Comments	Off cheese odour, pale brown, transparent, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	~~8/11/23~~, Sunny 8/11/23			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.56	m bgl	Observed Well Depth	14.12	m bgl
Height of Water Column	8.56	m bgl	Estimated Bore Volume*	44	L
GW Level (post sample)	6.01	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	22.7	2.29	250.7	5.03	22.4	44.82
2	1.0	21.1	0.33	240.2	4.90	14.4	43.41
3	1.5	21.1	0.16	237.1	4.89	12.4	42.89
4	2.0	21.1	0.06	235.4	4.88	10.9	44.88
5	2.5	21.1	0.03	232.4	4.87	9.7	43.21
6	3.0	21.1	0.02	231.0	4.87	9.0	41.22
7	3.5	21.1	0.02	230.6	4.87	8.7	42.85
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	13.00	m bgl,	Mid Screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Brown, clear, slight cheese odour off cheese odour					
Sample ID	DD210					
QAQC Samples	Replicate	BD2/2023	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)^	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Boambee, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP302	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9.27, 18/9/23, Sunny			Purged By	DJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.08	m bgl	Observed Well Depth	7.17	m bgl
Height of Water Column (H) ^	2.09	m bgl	Estimated Bore Volume*	23	L
GW Level (post-purge)	5.16	m bgl	Total Volume Purged**	70	L
Appearance/Comments	Pale brown, slight sulphuric odour, mod turbidity				

Sampling Details					
Date / Time / Weather Conditions	9.10, 21/9/23, sunny			Sampled By	DJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.09	m bgl	Observed Well Depth	7.17	m bgl
Height of Water Column	2.08	m bgl	Estimated Bore Volume*	~23	L
GW Level (post sample)	5.14	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	19.5	2.98	536	5.21	106.3	34.06
2	1.0	19.5	1.46	544	5.20	104.5	32.01
3	1.5	19.4	1.15	547	5.21	103.3	36.40
4	2.0	19.4	0.92	548	5.22	102.4	31.7
5	2.5	19.4	0.89	548	5.22	102.1	31.6
6	3.0	19.4	0.87	549	5.22	101.9	29.4
7	3.5	19.4	0.86	550	5.22	101.3	28.2
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slightly cloudy, slight sulphuric odour					
Sample ID	DP302					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	1.6
6.5	1.0
1.0	1.0
1.5	1.0
2.0	1.6

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP305	Drilling Method	100	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	Poker to 10	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	1111-52, 13/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Tusker Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.20	m bgl	Observed Well Depth	7.26	m bgl
Height of Water Column (H)	2.06	m bgl	Estimated Bore Volume*	22	L
GW Level (post-purge)	5.27	m bgl	Total Volume Purged**	70	L
Appearance/Comments	Pale, brown, slight sulphuric odour, low turb				

Sampling Details					
Date / Time / Weather Conditions	8:10, 21/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.24	m bgl	Observed Well Depth	7.26	m bgl
Height of Water Column	2.02	m bgl	Estimated Bore Volume*	~22	L
GW Level (post sample)	5.30	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	19.9	1.26	656	6.48	43.1	50.4
1.0	2	19.9	0.78	641	6.49	28.9	46.2
1.5	3	19.9	0.53	636	6.50	15.9	48.2
2.0	4	19.9	0.30	634	6.51	9.2	43.2
2.5	5	19.9	0.26	681	6.51	4.6	46.5
3.0	6	19.9	0.23	630	6.51	2.2	44.6
3.5	7	19.9	0.22	629	6.51	0.4	43.2
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L.			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, sulphuric odour.					
Sample ID	DP305					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	15.9
0.5	23.4
1.0	25.4
1.5	26.2
2.0	21.7

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP307	Drilling Method	Hand Auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	1.50 13/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.15	m bgl	Observed Well Depth	7.37	m bgl
Height of Water Column (H)	2.22	m bgl	Estimated Bore Volume*	24	L
GW Level (post-purge)	5.23	m bgl	Total Volume Purged**	80	L
Appearance/Comments	Brown, slight sulphuric odour, med turbidity				

Sampling Details					
Date / Time / Weather Conditions	1.10, 21/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.15	m bgl	Observed Well Depth	7.37	m bgl
Height of Water Column	2.22	m bgl	Estimated Bore Volume*	24	L
GW Level (post sample)	5.20	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.3	1.55	907	6.21	32.7	44.12
1.0	2	20.2	0.62	912	6.19	26.7	53.47
1.5	3	20.2	0.33	~~912~~ 913	6.19	14.9	51.37
2.0	4	20.2	0.09	913	6.19	7.7	52.31
2.5	5	20.2	0.04	915	6.19	5.2	51.26
3.0	6	20.2	0.02	917	6.19	2.1	53.04
3.5	7	20.2	0.01	919	6.19	-0.6	51.21
↓	↓						
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, slightly cloudy, sulphuric odour					
Sample ID	DP304					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	7.8
0.5	7.2
1.0	7.3
1.5	7.3
2.0	7.2

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankmeadow				Project Number	214600-01
Well Construction Details	Well ID	307	Drilling Method	108	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, cloudy, rain			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.26	m bgl	Observed Well Depth	7.36	m bgl
Height of Water Column (H)	1.85	m bgl	Estimated Bore Volume*	20	L
GW Level (post-purge)	5.51	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Sulphuric odour, slight brown tinge, clear, v. low turb.				

Sampling Details					
Date / Time / Weather Conditions	10/11/23, Cloudy			Sampled By	
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.18	m bgl	Observed Well Depth	7.36	m bgl
Height of Water Column	2.18	m bgl	Estimated Bore Volume*	98	L
GW Level (post sample)	5.26	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.2	0.42	573	6.18	24.0	42.61
2	1.0	20.2	0.26	579	6.16	19.4	41.34
3	1.5	20.2	0.17	582	6.15	15.9	39.36
4	2.0	20.2	0.12	563	6.15	9.1	38.46
5	2.5	20.2	0.11	584	6.15	7.4	42.41
6	3.0	20.2	0.10	585	6.15	6.6	43.55
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.75	m bgl,	mid WC DB307T @ 5.5 → top WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Yellow-brown, clear; strong sulphuric odour					
Sample ID	DB307 & DB307T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target, min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP311	Drilling Method	DPSH	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	Refer to DPSH	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	8:56, 13/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.45	m bgl	Observed Well Depth	7.66	m bgl
Height of Water Column (H)	2.21	m bgl	Estimated Bore Volume*	24	L
GW Level (post-purge)	5.50	m bgl	Total Volume Purged**	80	L
Appearance/Comments	Brown, sulphuric odour, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	20/9/23, 9:00, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.50	m bgl	Observed Well Depth	7.66	m bgl
Height of Water Column	2.16	m bgl	Estimated Bore Volume*	~23	L
GW Level (post sample)	5.59	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.4	1.00	327.5	5.78	116.9	36.2
1.0	2	21.3	0.48	323.2	5.76	111.1	32.4
1.5	3	21.2	0.28	319.7	5.76	102.3	27.3
2.0	4	21.1	0.19	319.0	5.76	96.7	28.4
2.5	5	21.1	0.16	318.4	5.76	92.6	26.7
3.0	6	21.1	0.14	317.6	5.76	91.4	27.2
3.5	7	21.1	0.13	317.3	5.76	89.4	28.4
↓	↓						

Notes: # Considered stabilised if three DO values are less than 0.5 mg/L; ^ Considered stabilised if three Turbidity values are less than 5 NTU

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slightly cloudy, ~~no odour~~ sulphuric odour					
Sample ID	DP311					
QAQC Samples	Replicate	BD1/20/23	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	0.4
0.5	0.4
1.0	0.4
1.5	0.4
2.0	0.4

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP331	Drilling Method	HSA	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	10	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9:10, 18/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.90	m bgl	Observed Well Depth	7.23	m bgl
Height of Water Column (H)	1.33	m bgl	Estimated Bore Volume*	~~15~~	L
GW Level (post-purge)	6.0	m bgl	Total Volume Purged**	50	L
Appearance/Comments	D.grey, HC odour, high turbidity				

Sampling Details					
Date / Time / Weather Conditions	10:17 21/9/23, sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.93	m bgl	Observed Well Depth	7.23	m bgl
Height of Water Column	1.3	m bgl	Estimated Bore Volume*	~14	L
GW Level (post sample)	6.09	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.5	0.80	628	6.13	-21.3	560.10
1.0	2	20.4	0.11	626	6.10	-25.7	620.02
1.5	3	20.3	0.01	569	6.09	-27.0	601.93
2.0	4	20.3	-0.01	566	6.09	-29.1	569.42
2.5	5	20.3	-0.05	567	6.09	-31.2	540.41
3.0	6	20.3	-0.09	570	6.09	-34.6	568.78
3.5	7	20.3	-0.12	569	6.09	-36.2	555.22
4.0	8	20.3	-0.15	566	6.09	-39.8	562.17
4.5	9	20.3	-0.16	567	6.09	-40.2	575.03
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	D.grey, HC odour,					
Sample ID	DP331					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

0	950
0.5	1511
1.0	1711
1.5	1834
2.0	1860
2.5	1868
3.0	1868

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	219609.01
Well Construction Details	Well ID	~~BH~~ MW331	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	1/11/23 Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.99	m bgl	Observed Well Depth	7.28	m bgl
Height of Water Column (H)	1.29	m bgl	Estimated Bore Volume*	14.3	L
GW Level (post-purge)	6.17	m bgl	Total Volume Purged**	45	L
Appearance/Comments	Hydrocarbon odour, brown, high turbidity				

Sampling Details					
Date / Time / Weather Conditions	8/11/23 Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.92	m bgl	Observed Well Depth	7.28	m bgl
Height of Water Column	1.36	m bgl	Estimated Bore Volume*	15	L
GW Level (post sample)	5.96	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.7	0.97	499.3	6.01	0.1	84.2
2	1.0	20.5	0.45	498.4	5.99	-5.4	83.9
3	1.5	20.5	0.33	500	5.98	-7.6	82.6
4	2.0	20.5	0.28	502	5.98	-8.6	82.6
5	2.5	20.5	0.26	503	5.98	-9.3	81.7
6	3.0	20.5	0.25	503	5.98	-9.7	80.4
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	7.0	m bgl,	6.0 for sample T, 7.0 for water para			
Sample Observations (e.g. colour, sediment, sheen, odour)	Brown, slight hydrocarbon odour, turbid,					
Sample ID	DP311T & DP311					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankstown, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP334	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	11·03			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5·31	m bgl	Observed Well Depth	7.29	m bgl
Height of Water Column (H)	1.98	m bgl	Estimated Bore Volume*	22	L
GW Level (post-purge)	5.49	m bgl	Total Volume Purged**	70	L
Appearance/Comments					

Sampling Details					
Date / Time / Weather Conditions	11·30, 21/9/23, sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.39	m bgl	Observed Well Depth	7·29	m bgl
Height of Water Column	1.9	m bgl	Estimated Bore Volume*	22	L
GW Level (post sample)	5·46	m bgl	Total Volume of Micro-Purged	4	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0·5	1	20·4	0.98	1413	6·53	46·9	22·50
1·0	2	20·3	0·38	1419	6·54	24·3	21·96
1·5	3	20·3	0·15	1421	6·55	12·3	25·24
2·0	4	20·3	0·04	1422	6·55	6·1	19·17
2·5	5	20·3	-0·03	1422	6·55	2·6	18·18
3·0	6	20·3	-0·06	1423	6·55	-3·2	19·42
3·5	7	20·3	-0·08	1422	6·55	-4·5	20·26
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6·5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, slightly cloudy, slight sulphuric odour					
Sample ID	DP334					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	33·3
0·5	35·0
1·0	35·1
1·5	35·2
2·0	35·7

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankstown				Project Number	219689.01
Well Construction Details	Well ID	334	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	2/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.49	m bgl	Observed Well Depth	7.40	m bgl
Height of Water Column (H)	1.91	m bgl	Estimated Bore Volume*	21	L
GW Level (post-purge)	5.57	m bgl	Total Volume Purged**	65	L
Appearance/Comments	Sulphuric odour, brown, high turb. silty				

Sampling Details					
Date / Time / Weather Conditions	8/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.35	m bgl	Observed Well Depth	7.40	m bgl
Height of Water Column	2.05	m bgl	Estimated Bore Volume*	11	L
GW Level (post sample)	6.32	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.0	0.61	1064	6.44	42.0	81.41
2	1.0	20.7	0.20	1080	6.46	26.9	82.61
3	1.5	20.6	0.06	1082	6.47	15.2	83.37
4	2.0	20.6	0.05	1083	6.47	13.1	81.11
5	2.5	20.6	0.04	1084	6.47	12.4	80.45
6	3.0	20.6	0.04	1084	6.47	11.0	80.59
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.75	m bgl.	Mid screen DP334T @ 5.50 -> Top WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Brown, clear, sulphuric odour, turbid					
Sample ID	DP334 & DP334T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	DP338	Drilling Method	100	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	Flow Up	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	12:46, 13/9/23, Sunny			Purged By	PT
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.10	m bgl	Observed Well Depth	8.12	m bgl
Height of Water Column (H)	3.02	m bgl	Estimated Bore Volume*	35	L
GW Level (post-purge)	5.25	m bgl	Total Volume Purged**	115	L
Appearance/Comments	Pale brown, sulphuric odour, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	9.40, 21/9/23, Sunny			Sampled By	PT
Sampling Method / Equipment	Pavi Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.16	m bgl	Observed Well Depth	8.12	m bgl
Height of Water Column	2.96	m bgl	Estimated Bore Volume*	~32	L
GW Level (post sample)	5.24	m bgl	Total Volume of Micro-Purged	6	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	19.7	1.99	90.9	5.16	-53.1	52.4
1.0	2	19.6	0.66	83.6	5.02	-47.0	56.2
1.5	3	19.6	0.33	87.6	5.01	-43.6	53.5
2.0	4	19.6	0.22	89.4	5.01	-42.6	52.7
2.5	5	19.6	0.19	89.5	5.01	-41.2	52.8
3.0	6	19.6	0.18	89.5	5.01	-41.1	53.5
↓	↓						
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, slight hydrocarbon odour, clear					
Sample ID	DP338					
QAQC Samples	Replicate		Tripticate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	73.2
0.5	49.5
1.0	38.6
1.5	34.5
2.0	31.7

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankswood				Project Number	219609.01
Well Construction Details	Well ID	338	Drilling Method	hand auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	1.0 to 10	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, Cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)	5.23	m bgl	Observed Well Depth	8.06	m bgl
Height of Water Column (H)	2.83	m bgl	Estimated Bore Volume*	30	L
GW Level (post-purge)	5.62	m bgl	Total Volume Purged**	90	L
Appearance/Comments	Sulphuric odour, pale brown, clear, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, Cloudy			Sampled By	PJ
Sampling Method / Equipment	Peristaltic Pump				
WQM Model	Pro DSS #1		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	YES	
GW Level (pre-micropurge)	5.10	m bgl	Observed Well Depth	8.06	m bgl
Height of Water Column	2.96	m bgl	Estimated Bore Volume*	32	L
GW Level (post sample)	5.25	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.3	7.23	98.3	5.46	68.1	40.70
2	1.0	20.7	1.48	91.4	5.41	66.8	36.48
3	1.5	20.5	1.18	88.7	5.36	65.3	34.24
4	2.0	20.5	0.97	87.2	5.37	64.1	36.24
5	2.5	20.5	0.90	86.9	5.37	63.3	34.99
6	3.0	20.5	0.90	86.2	5.37	62.8	33.45
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid WC, ~~5.90~~ DP338T @ 5.20 -> Top WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale brown, sulphuric odour, clear					
Sample ID	DP338 & DP338T					
QAQC Samples	Replicate	BD1	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	1.8	3.7	5.2	5.4	11.1

BD1/20231109 @ DP338

10-4

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bowlsmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW01	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	1 to 10	Stick Up (m)	
Survey Information	Easting		Northing	Refer to 10	Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	10:08, 14/9/23 Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.07	m bgl	Observed Well Depth	6.90	m bgl
Height of Water Column (H)	1.83	m bgl	Estimated Bore Volume*	20	L
GW Level (post-purge)	5.13	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Pale brown, slight sulphuric odour, low turb				

Sampling Details					
Date / Time / Weather Conditions	1.45, 20/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.06	m bgl	Observed Well Depth	6.90	m bgl
Height of Water Column	1.84	m bgl	Estimated Bore Volume*	~20	L
GW Level (post sample)	5.10	m bgl	Total Volume of Micro-Purged	8	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.8	3.12	192.7	6.76	22.8	20.2
1.0	2	19.6	1.90	187.6	6.68	14.4	21.4
1.5	3	19.4	1.45	186.3	6.64	7.8	22.6
2.0	4	19.4	1.26	184.2	6.63	6.0	26.2
2.5	5	19.4	1.18	180.1	6.62	4.2	28.4
3.0	6	19.4	1.16	177.0	6.62	1.8	27.4
3.5	7	19.4	1.14	174.1	6.62	0.6	26.9
4.0	8	19.4	1.13	172.4	6.62	-0.4	26.7

Notes: # Considered stabilised if three DO values are less than 0.5 mg/L; ^ Considered stabilised if three Turbidity values are less than 5 NTU

Sample Details						
Sampling Depth (rationale)	6	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, sulphuric odour, slightly cloudy					
Sample ID	JBMW01					
QAQC Samples	Replicate	BD4/20/9/23	Triplicate	QC20	Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	0
0.5	0
1.0	0
1.5	0
2.0	0

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Doubleday, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW03	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	below TOP	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	1130 13/9/23			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.27	m bgl	Observed Well Depth	7.13	m bgl
Height of Water Column (H)	1.86	m bgl	Estimated Bore Volume*	20	L
GW Level (post-purge)	5.35	m bgl	Total Volume Purged**	70	L
Appearance/Comments	[redacted], sulphuric odour, slightly turbid				

Sampling Details	Pale yellow-grey				
Date / Time / Weather Conditions	20/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.41	m bgl	Observed Well Depth	7.13	m bgl
Height of Water Column	1.72	m bgl	Estimated Bore Volume*	2.19	L
GW Level (post sample)	5.43	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	22.5	0.13	5404	7.10	-5.7	468.43
1.0	2	22.4	-0.05	5000	7.05	-19.8	565.43
1.5	3	22.4	-0.11	4882	7.05	-25.7	471.11
2.0	4	22.4	-0.14	5310	7.07	-32.3	392.07
2.5	5	22.4	-0.16	5231	7.07	-38.3	376.41
3.0	6	22.4	-0.17	5236	7.07	-41.3	381.22
3.5	7	22.4	-0.17	5243	7.07	-42.7	379.09
↓							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Dark yellow, HC odour [redacted] → Possible sheen near top of bailer return					
Sample ID	JBMW03					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	34.5
0.5	35.5
1.0	44.5
1.5	44.6
2.0	44.7

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bowlsvale, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW04	Drilling Method	Hand Auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	Refer	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	2-23, 13/9/23, sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.31	m bgl	Observed Well Depth	7.00	m bgl
Height of Water Column (H)	1.69	m bgl	Estimated Bore Volume*	18	L
GW Level (post-purge)	5.35	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Clear/transparent, slight sulphuric odour, v-low turbidity				

Sampling Details					
Date / Time / Weather Conditions	2-20, 21/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.34	m bgl	Observed Well Depth	7.00	m bgl
Height of Water Column	1.66	m bgl	Estimated Bore Volume*	~18	L
GW Level (post sample)	5.40	m bgl	Total Volume of Micro-Purged	4	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.2	5.86	333.2	6.95	-69.1	46.48
1.0	2	21.2	5.80	257.2	6.67	-54.4	31.24
1.5	3	21.2	5.75	247.8	6.58	-43.2	26.41
2.0	4	21.2	5.69	247.7	6.58	-34.4	23.22
2.5	5	21.2	5.60	247.9	6.58	-23.1	22.10
3.0	6	21.2	5.57	248.1	6.58	-18.4	22.96
3.5	7	21.2	5.55	248.8	6.58	-16.2	22.45
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.25	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slightly cloudy, slight sulphuric odour					
Sample ID	JBMC004					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	0
0.5	0
1.0	0
1.5	0
2.0	0

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bulkwaeter, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW05	Drilling Method	Hand Auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	8:50, 19/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.46	m bgl	Observed Well Depth	7.07	m bgl
Height of Water Column (H)	1.61	m bgl	Estimated Bore Volume*	17	L
GW Level (post-purge)	5.56	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Pale brown, slight sulphuric/H2S odour, low turb				

Sampling Details					
Date / Time / Weather Conditions	9.50, 21/9/23, sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.57	m bgl	Observed Well Depth	7.07	m bgl
Height of Water Column	1.56	m bgl	Estimated Bore Volume*	~17	L
GW Level (post sample)	5.63	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.2	0.86	661	6.22	36.3	44.84
1.0	2	20.1	0.54	661	6.20	25.3	41.21
1.5	3	20.1	0.37	660	6.20	17.4	43.36
2.0	4	20.1	0.25	663	6.20	10.2	42.10
2.5	5	20.1	0.22	664	6.20	8.7	41.20
3.0	6	20.1	0.19	664	6.20	7.8	40.90
3.5	7	20.1	0.18	664	6.26	7.5	41.83
↳							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.25	m bgl,	Mid aq			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, sulphuric odour					
Sample ID	JBMW05					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	53.2
0.5	56.6
1.0	58.3
1.5	58.8
2.0	58.9

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	219609.01
Well Construction Details	Well ID	JBMW05	Drilling Method	Hand auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	1.0-4.0	Stick Up (m)	
Survey Information	Easting		Northing	Peter	Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23 Cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.56	m bgl	Observed Well Depth	7.07	m bgl
Height of Water Column (H)	1.51	m bgl	Estimated Bore Volume*	16	L
GW Level (post-purge)	5.67	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Pale brown, clear, sulphuric odour, slight solvent odour, low turb				

Sampling Details					
Date / Time / Weather Conditions	8/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.45	m bgl	Observed Well Depth	7.07	m bgl
Height of Water Column	1.62	m bgl	Estimated Bore Volume*	17	L
GW Level (post sample)	5.56	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)^	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.5	1.47	822	6.37	-2.2	28.4
2	1.0	21.0	0.70	816	6.33	-26.7	26.51
3	1.5	20.8	0.26	804	6.31	-37.4	25.72
4	2.0	20.8	0.21	796	6.31	-42.6	22.64
5	2.5	20.8	0.18	784	6.31	-43.4	21.51
6	3.0	20.8	0.17	780	6.31	-45.5	21.34
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC / Midscreen, JBMW05T @ 5.5m → Top WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Brown, clear, sulphuric odour, slight solvent odour					
Sample ID	JBMW05 & JBMW05T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bomaderry, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW06	Drilling Method	Hand Auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	10:30, 13/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.55	m bgl	Observed Well Depth	7.10	m bgl
Height of Water Column (H)	1.55	m bgl	Estimated Bore Volume*	17	L
GW Level (post-purge)	5.61	m bgl	Total Volume Purged**	6.0	L
Appearance/Comments	Clear/transparent, no odour, V low turbidity				

Sampling Details					
Date / Time / Weather Conditions	19/9/23, 12:00, Sunny			Sampled By	PJ
Sampling Method / Equipment	PeriPump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	–	
GW Level (pre-micropurge)	5.57	m bgl	Observed Well Depth	7.10	m bgl
Height of Water Column	1.53	m bgl	Estimated Bore Volume*	≈16	L
GW Level (post sample)	5.63	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	22.0	1.82	347.4	5.90	-1.3	30.4
1.0	2	20.8	0.80	340.5	5.83	-11.3	31.1
1.5	3	20.4	0.48	344.2	5.82	-13.7	32.6
2.0	4	20.4	0.09	340.1	5.82	-19.2	30.4
2.5	5	20.4	0.05	341.1	5.82	-22.4	31.2
3.0	6	20.4	0.04	342.2	5.82	-23.2	30.4
3.5	7	20.4	0.03	343.4	5.82	-14.0	31.7
↔							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, yellow tinge, sulphuric odour					
Sample ID	JBMW06					
QAQC Samples	Replicate	BD3/20230919	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID		
	0	1.2
	0.5	1.3
	1.0	1.3
	1.5	1.3
	2.0	1.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Eastbsmeadow				Project Number	219609.01
Well Construction Details	Well ID	JBMW06	Drilling Method	Hand	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	to	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Tiger Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.72	m bgl	Observed Well Depth	7.12	m bgl
Height of Water Column (H)	1.4	m bgl	Estimated Bore Volume*	15.5	L
GW Level (post-purge)	5.77	m bgl	Total Volume Purged**	50	L
Appearance/Comments	Sulphuric odour, clear/transparent, Slow turbidity				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, cloudy			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.62	m bgl	Observed Well Depth	7.12	m bgl
Height of Water Column	1.5	m bgl	Estimated Bore Volume*	16	L
GW Level (post sample)	5.78	m bgl	Total Volume of Micro-Purged	10	L

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Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.8	0.71	438.2	5.75	72.3	28.36
2	1.0	20.5	0.32	431.2	5.73	70.6	22.61
3	1.5	20.3	0.15	430.0	5.71	68.4	23.04
4	2.0	20.3	0.08	426.7	5.70	66.7	22.77
5	2.5	20.3	0.05	425.9	5.70	66.0	24.85
6	3.0	20.3	0.03	425.7	5.70	65.9	23.68
7	3.5	20.3	0.02	425.3	5.70	65.8	22.41
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.75	m bgl,	Mid screen for JBMW06T @ 5.75 → TSP WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, slight sulphuric odour					
Sample ID	JBMW06 & JBMW06T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW07	Drilling Method	HA	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	10:55, 13/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.55	m bgl	Observed Well Depth	7.35	m bgl
Height of Water Column (H)	1.80	m bgl	Estimated Bore Volume*	20	L
GW Level (post-purge)	5.62	m bgl	Total Volume Purged**	70	L
Appearance/Comments	Clear/transparent, No odour slight sulphuric odour, V. low turb				

Sampling Details					
Date / Time / Weather Conditions	11.00 20/9/23, sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.57	m bgl	Observed Well Depth	7.35	m bgl
Height of Water Column	1.78	m bgl	Estimated Bore Volume*	~19	L
GW Level (post sample)	5.60	m bgl	Total Volume of Micro-Purged	7	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.9	1.88	388.0	5.96	0.1	25.18
1.0	2	21.0	0.85	379.1	5.94	-6.5	20.2
1.5	3	20.7	0.39	384.2	5.93	-17.1	17.2
2.0	4	20.6	0.21	395.7	5.93	-23.2	14.8
2.5	5	20.4	0.15	399.2	5.93	-26.4	13.2
3.0	6	20.4	0.11	406.1	5.93	-29.2	14.5
3.5	7	20.4	0.09	407.2	5.93	-31.0	14.7
⇐							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear/transparent, no odour					
Sample ID	JBMW07					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0	3.1
0.5	2.7
1.0	2.6
1.5	2.6
2.0	2.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Brookmeadow				Project Number	219609.01
Well Construction Details	Well ID	JBMW07	Drilling Method	100?	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	below 10	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	2/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.68	m bgl	Observed Well Depth	7.36	m bgl
Height of Water Column (H)	1.68	m bgl	Estimated Bore Volume*	18.6	L
GW Level (post-purge)	5.77	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Sulphuric odour, pale brown, transparent, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, Cloudy			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.61	m bgl	Observed Well Depth	7.36	m bgl
Height of Water Column	1.75	m bgl	Estimated Bore Volume*	19	L
GW Level (post sample)	5.7	m bgl	Total Volume of Micro-Purged	16	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.3	1.69	287.8	5.61	65.0	203.6
2	1.0	20.3	0.59	292.2	5.63	53.1	82.61
3	1.5	20.3	0.23	295.4	5.63	47.0	41.23
4	2.0	20.3	0.12	296.7	5.63	42.7	30.41
5	2.5	20.3	0.05	295.8	5.63	40.4	20.11
6	3.0	20.3	0.03	294.9	5.63	38.6	19.01
7	3.5	20.3	0.02	297.8	5.63	37.6	19.22
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.75	m bgl,	mid screen, JBMW07T @ 5.75 → 10 DC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, sulphuric odour, clear					
Sample ID	JBMW07 & JBMW07T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW10	Drilling Method	Hand auger	Hole Diameter (m)~	0.08
	Well Depth (m bgl)		Screened (m bgl)	to 1.0 m bgl	Stick Up (m)	
Survey Information	Easting		Northing	Total depth 1.0 m bgl	Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	7:57 13/9/23 sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.37	m bgl	Observed Well Depth	7.33	m bgl
Height of Water Column (H)	1.96	m bgl	Estimated Bore Volume*	10	L
GW Level (post-purge)	5.39	m bgl	Total Volume Purged**	45	L
Appearance/Comments	Pale brown, slight sulphuric odour, slightly turbid				

Sampling Details					
Date / Time / Weather Conditions	20/9/23, 8:15, Hot			Sampled By	PJ
Sampling Method / Equipment	Peri Pump,				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.38	m bgl	Observed Well Depth	7.33	m bgl
Height of Water Column	1.95	m bgl	Estimated Bore Volume*	~21	L
GW Level (post sample)	5.40	m bgl	Total Volume of Micro-Purged	6	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.3	0.63	456.9	5.93	78.7	20.4
1.0	2	20.4	0.40	444.2	6.01	54.5	18.9
1.5	3	20.2	0.29	438.5	6.04	43.7	22.6
2.0	4	20.2	0.23	437.0	6.06	35.5	21.4
2.5	5	20.2	0.19	436.2	6.06	33.2	20.4
3.0	6	20.2	0.18	435.7	6.06	33.9	21.2
& 6-7							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slight sulphuric odour,					
Sample ID	JBMW10					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID 0-0.2
0.5-0.1
1.0-0.1
1.5-0
2.0-0

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bourkes Meadow				Project Number	219609.01
Well Construction Details	Well ID	JBMW11	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	8/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.66	m bgl	Observed Well Depth	6.39	m bgl
Height of Water Column (H)	0.73	m bgl	Estimated Bore Volume*	8	L
GW Level (post-purge)	5.93	m bgl	Total Volume Purged**	10	L
Appearance/Comments	Pale brown, clear, slight sulphuric odour, med turb				

Sampling Details					
Date / Time / Weather Conditions	10/11/23, Cloudy			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.68	m bgl	Observed Well Depth	6.39	m bgl
Height of Water Column	0.71	m bgl	Estimated Bore Volume*	7.8	L
GW Level (post sample)	6.78	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.9	0.68	160.9	5.83	-21.6	20.79
2	1.0	20.9	0.34	157.7	5.80	-21.8	18.49
3	1.5	20.9	0.24	156.1	5.80	-21.5	22.85
4	2.0	20.9	0.20	157.9	5.80	-20.1	23.54
5	2.5	20.9	0.19	169.8	5.80	-19.3	22.60
6	3.0	20.5	0.18	160.7	5.80	-18.5	21.81
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.00	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale brown, clear, slight sulphuric odour					
Sample ID	JBMW11					
QAQC Samples	Replicate	BD1/2023	Triplicate	MD	Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Jacubsreadaw, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW12	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	10.40 14/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.01	m bgl	Observed Well Depth	7.82	m bgl
Height of Water Column (H)	2.81	m bgl	Estimated Bore Volume*	31	L
GW Level (post-purge)	5.16	m bgl	Total Volume Purged**	93	L
Appearance/Comments	Pale, brown, ~~no odour~~, slight sulphuric odour, low turb.				

Sampling Details					
Date / Time / Weather Conditions	12.45, 21/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.16	m bgl	Observed Well Depth	7.82	m bgl
Height of Water Column	2.72	m bgl	Estimated Bore Volume*	230	L
GW Level (post sample)	5.15	m bgl	Total Volume of Micro-Purged	9	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.3	2.17	282.5	5.91	60.7	36.21
1.0	2	20.1	0.65	271.1	5.91	45.7	37.80
1.5	3	20.1	0.33	263.1	5.91	33.8	32.61
2.0	4	20.1	0.19	264.7	5.91	28.3	31.20
2.5	5	20.0	0.08	267.9	5.91	19.3	34.69
3.0	6	20.0	0.03	264.2	5.91	15.7	32.59
2.5	7	20.0	0.02	257.0	5.91	10.2	31.46
4.0	8	20.0	0.01	258.8	5.91	9.6	32.16
←→							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, sulphuric odour.					
Sample ID	JBMW12					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

10.44 PID

0	10.6
0.5	11.5
1.0	11.3
1.5	11.3
2.0	11.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	221609.01
Well Construction Details	Well ID	JBMW12	Drilling Method	Hand	Hole Diameter (m)^	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	2/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Tidistor Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.10	m bgl	Observed Well Depth	7.86	m bgl
Height of Water Column (H)	2.76	m bgl	Estimated Bore Volume*	30	L
GW Level (post-purge)	5.27	m bgl	Total Volume Purged**	100	L
Appearance/Comments	Sulphuric odour, brown, transpcuent, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	8/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.07	m bgl	Observed Well Depth	7.86	m bgl
Height of Water Column	2.79	m bgl	Estimated Bore Volume*	30	L
GW Level (post sample)	5.10	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	23.3	2.43	282.4	6.10	-12.6	19.76
2	1.0	21.4	1.01	232.2	6.00	-25.5	13.57
3	1.5	20.9	0.57	208.0	5.98	-37.5	13.62
4	2.0	20.8	0.18	202.2	5.96	-44.3	14.41
5	2.5	20.7	0.07	214.1	5.95	-49.8	17.12
6	3.0	20.7	0.04	215.2	5.95	-51.2	15.55
7	3.5	20.7	0.03	215.3	5.95	-52.1	15.72
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	7	m bgl,	Mid screening, JBMW12 @ 5.15 → Top			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, pale brown, sulphuric odour (slight)					
Sample ID	JBMW12 & JBMW12T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)^	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	JBMW13	Drilling Method	HQ	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	below 10.5	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9.53, 13/9/23 Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.65	m bgl	Observed Well Depth	7.92	m bgl
Height of Water Column (H)	2.27	m bgl	Estimated Bore Volume*	25	L
GW Level (post-purge)	5.71	m bgl	Total Volume Purged**	80	L
Appearance/Comments	Clear/transparent, no odour, v. low turbidity				

Sampling Details					
Date / Time / Weather Conditions	10.00, 20/9/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.64	m bgl	Observed Well Depth	7.92	m bgl
Height of Water Column	2.28	m bgl	Estimated Bore Volume*	~25	L
GW Level (post sample)	5.67	m bgl	Total Volume of Micro-Purged	6	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.8	1.26	249.1	5.84	3.1	31.2
1.0	2	21.5	0.35	245.1	5.83	-23.8	34.5
1.5	3	21.5	0.25	245.0	5.83	-30.4	33.2
2.0	4	21.6	0.18	246.1	5.83	-36.6	35.0
2.5	5	21.6	0.16	244.7	5.83	-41.5	22.4
3.0	6	21.6	0.15	244.1	5.83	-42.8	29.8
	7						
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, sulphuric odour, slightly cloudy					
Sample ID	JBMW13					
QAQC Samples	Replicate	BD2/20230920	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	0.1
0.5	0.0
1.0	0.0
1.5	0.0
2.0	0.0

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	219609.01
Well Construction Details	Well ID	JBMW13	Drilling Method	Refer to logs	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	9/11/23, Sunny			Purged By	PJ
Purge Method / Equipment	Tornstar pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.75	m bgl	Observed Well Depth	7.87	m bgl
Height of Water Column (H)	2.12	m bgl	Estimated Bore Volume*	23.5	L
GW Level (post-purge)	5.86	m bgl	Total Volume Purged**	75	L
Appearance/Comments	Sulphuric odour, clear/transparent, V. Low turbidity				

Sampling Details					
Date / Time / Weather Conditions	8/11/23; Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.58	m bgl	Observed Well Depth	7.87	m bgl
Height of Water Column	2.29	m bgl	Estimated Bore Volume*	25	L
GW Level (post sample)	5.63	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	22.0	1.07	235.1	5.92	40.5	10.70
2	1.0	21.7	0.66	231.7	5.89	30.8	10.92
3	1.5	21.6	0.34	228.5	5.88	22.6	12.32
4	2.0	21.5	0.20	225.8	5.88	14.6	11.88
5	2.5	21.4	0.12	223.4	5.88	10.2	12.41
6	3.0	21.4	0.10	219.9	5.88	9.1	13.77
7	3.5	21.4	0.09	218.6	5.88	8.1	11.22
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	7	m bgl,	mid screen JBMW13T @ 5.70 → top WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale brown, clear, sulphuric odour					
Sample ID	JBMW13 & JBMW13T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	219609.01
Well Construction Details	Well ID	MW09	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.25	m bgl	Observed Well Depth	5.64	m bgl
Height of Water Column (H)	0.47	m bgl	Estimated Bore Volume*	5	L
GW Level (post-purge)	5.65	m bgl	Total Volume Purged**	15	L
Appearance/Comments	Sulphuric odour, pale brown, clear, low turb, slightly cloudy				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	No	
GW Level (pre-micropurge)	5.23	m bgl	Observed Well Depth	5.64	m bgl
Height of Water Column	0.41	m bgl	Estimated Bore Volume*	5	L
GW Level (post sample)	5.55	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.5	1.00	386.8	5.97	145.6	21.14
2	1.0	21.1	0.40	378.4	5.94	144.4	24.54
3	1.5	21.0	0.22	380.7	5.93	143.5	24.74
4	2.0	21.0	0.15	380.7	5.93	143.0	22.63
5	2.5	21.0	0.14	380.7	5.93	142.8	21.88
6	3.0	21.0	0.13	380.6	5.93	142.7	23.55
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	5.5	m bgl,	mid WL			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, slightly yellow, slight solvent odour					
Sample ID	MW09					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bulkheadline Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	MW11	Drilling Method	Packer 10/10/23	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	11:04, 19/9/23, Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.53	m bgl	Observed Well Depth	6.57	m bgl
Height of Water Column (H)	1.04	m bgl	Estimated Bore Volume*	12	L
GW Level (post-purge)	5.59	m bgl	Total Volume Purged**	40	L
Appearance/Comments	Clear/transparent, Slight sulphuric odour, v.low turb				

Sampling Details					
Date / Time / Weather Conditions	12:40, 20/9/23, Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.49	m bgl	Observed Well Depth	6.57	m bgl
Height of Water Column	1.08	m bgl	Estimated Bore Volume*	~12	L
GW Level (post sample)	5.52	m bgl	Total Volume of Micro-Purged	6	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	22.4	1.02	282.3	6.24	43.5	42.4
1.0	2	21.7	0.48	278.9	6.23	52.4	42.82
1.5	3	21.5	0.23	289.7	6.23	24.5	36.2
2.0	4	21.5	0.15	286.8	6.23	17.6	33.4
2.5	5	21.4	0.13	289.7	6.23	12.2	31.0
3.0	6	21.4	0.13	288.4	6.23	9.0	29.8
<7							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6	m bgl,	mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, yellow tinge, sulphuric odour					
Sample ID	MW11					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	1.2
0.5	1.0
1.0	1.6
1.5	1.0
2.0	0.9

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow				Project Number	219609.01
Well Construction Details	Well ID	MW18	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, Cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.22	m bgl	Observed Well Depth	6.06	m bgl
Height of Water Column (H)	0.84	m bgl	Estimated Bore Volume*	9	L
GW Level (post-purge)	5.56	m bgl	Total Volume Purged**	30	L
Appearance/Comments	Solvent odour, ~~slight pale brown~~ tinge, clear, v.low turb, ~~white~~ pale grey				

Sampling Details					
Date / Time / Weather Conditions	10/11/23 sunny			Sampled By	PJ
Sampling Method / Equipment	Peristaltic Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.13	m bgl	Observed Well Depth	6.06	m bgl
Height of Water Column	0.93	m bgl	Estimated Bore Volume*	10	L
GW Level (post sample)	5.28	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	20.9	1.21	361.7	6.03	-66.8	12.12
2	1.0	20.9	0.75	360.6	5.99	-67.1	17.16
3	1.5	20.9	0.41	359.0	5.96	-67.6	17.19
4	2.0	20.9	0.24	358.8	5.95	-67.8	15.40
5	2.5	20.9	0.17	359.3	5.95	-68.0	16.79
6	3.0	20.9	0.15	361.0	5.95	-67.8	17.85
7	3.5	20.9	0.13	360.9	5.95	-67.8	17.55
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	5.50	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear slightly brown, sulphuric odour					
Sample ID	MW18					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankstown Meadow				Project Number	219609.01
Well Construction Details	Well ID	MW325	Drilling Method	Hand Auger	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, Cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	~~5.25~~ 5.27	m bgl	Observed Well Depth	6.22	m bgl
Height of Water Column (H)	0.95	m bgl	Estimated Bore Volume*	10	L
GW Level (post-purge)	5.55	m bgl	Total Volume Purged**	20	L
Appearance/Comments	Sulphuric odour, pale brown, transparent, low turb				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri. Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	7/11/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.25	m bgl	Observed Well Depth	6.22	m bgl
Height of Water Column	0.97	m bgl	Estimated Bore Volume*	~~10~~ 10.7	L
GW Level (post sample)	5.37	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.3	0.60	541	6.32	90.2	84.26
2	1.0	21.2	0.37	546	6.30	84.6	92.85
3	1.5	21.1	0.27	539	6.28	78.9	78.41
4	2.0	21.1	0.18	534	6.27	73.4	86.22
5	2.5	21.1	0.13	533	6.26	69.1	86.95
6	3.0	21.1	0.12	532	6.27	68.6	86.22
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	5.75	m bgl,	middle			
Sample Observations (e.g. colour, sediment, sheen, odour)	Yellow-brown, sulphuric odour, clear					
Sample ID	~~Yellow~~ MW325					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Banksmeadow, Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	MW40S	Drilling Method	10pt	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl	Petrol			
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	8:32, 13/9/23 Sunny			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.50	m bgl	Observed Well Depth	7.01	m bgl
Height of Water Column (H)	1.51	m bgl	Estimated Bore Volume*	16.	L
GW Level (post-purge)	1.56	m bgl	Total Volume Purged**	60	L
Appearance/Comments	Pale brown, sulphuric odour, low turbidity				

Sampling Details					
Date / Time / Weather Conditions	22/9/23, Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.56	m bgl	Observed Well Depth	7.01	m bgl
Height of Water Column	1.45	m bgl	Estimated Bore Volume*	N/A	L
GW Level (post sample)	5.62	m bgl	Total Volume of Micro-Purged		L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.4	1.22	562	5.93	58.2	62.49
1.0	2	20.4	0.56	534	5.94	49.8	61.35
1.5	3	20.4	0.22	509	5.94	40.9	63.49
2.0	4	20.4	0.08	483.4	5.99	34.1	62.99
2.5	5	20.4	0.02	474.5	6.00	30.1	66.67
3.0	6	20.4	0.00	472.6	6.00	28.4	59.44
3.5	7	20.4	-0.01	470.1	6.00	27.2	62.77
4.0	8	20.4	-0.03	469.8	6.00	25.6	63.85
↳							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.25	m bgl,	mid NC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale brown, sulphuric odour					
Sample ID	MW40S					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID		
0		3.4
0.5		0.9
1.0		0.8
1.5		0.7
2.0		0.6

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bankmeadow				Project Number	219609-01
Well Construction Details	Well ID	MW405	Drilling Method	100	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	to	Stick Up (m)	
Survey Information	Easting		Northing	Below	Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	3/11/23, Cloudy			Purged By	PJ
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	—	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.60	m bgl	Observed Well Depth	7.02	m bgl
Height of Water Column (H)	1.42	m bgl	Estimated Bore Volume*	15	L
GW Level (post-purge)	5.72	m bgl	Total Volume Purged**	45	L
Appearance/Comments	Brown, sulphuric odour, mid turbidity, transparent, slight sediment odour				

Sampling Details					
Date / Time / Weather Conditions	9/11/23, Cloudy, hot			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	Pro DSS YSI		WQM Calibration Date	9/11/23	
Product observed / Thickness	—	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.57	m bgl	Observed Well Depth	7.02	m bgl
Height of Water Column	1.45	m bgl	Estimated Bore Volume*	16	L
GW Level (post sample)	5.63	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
1	0.5	21.2	2.82	337.5	6.07	54.7	94.74
2	1.0	20.9	1.19	337.9	6.03	43.5	86.43
3	1.5	20.8	0.64	328.1	6.01	34.3	81.26
4	2.0	20.8	0.35	329.4	6.00	28.4	79.62
5	2.5	20.8	0.21	330.0	5.99	26.7	90.24
6	3.0	20.8	0.18	330.9	5.99	25.1	81.26
7	3.5	20.8	0.16	331.6	5.99	24.6	80.79
8	4.0	20.8	0.15	332.4	5.99	24.0	78.86
		8					
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.5	m bgl,	mid screen for MW405T @ 5.75 → Top WL			
Sample Observations (e.g. colour, sediment, sheen, odour)	Brown, high turb, strong Sulphuric odour					
Sample ID	MW405 & MW405T					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bambenneadow					
Project Name / Site Location	Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	MW40D	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Redrilled to 10m

Well Development Details					
Date / Time / Weather Conditions	20/9/23, Sunny			Purged By	PT
Purge Method / Equipment	Foot valve, PFAS free tubing				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	N	
GW Level (pre-purge)	5.57	m bgl	Observed Well Depth	10.00	m bgl
Height of Water Column (H)	4.49	m bgl	Estimated Bore Volume*	50	L
GW Level (post-purge)	5.61	m bgl	Total Volume Purged**	150	L
Appearance/Comments	Pale yellow, clear, sulphuric odour				

Sampling Details					
Date / Time / Weather Conditions	21/9/23, Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	N	
GW Level (pre-micropurge)	5.65	m bgl	Observed Well Depth	10.00	m bgl
Height of Water Column	4.35	m bgl	Estimated Bore Volume*	~48	L
GW Level (post sample)	5.70	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	19.9	0.49	852	5.56	-16.4	47.21
1.0	2	20.6	0.03	937	5.32	-14.0	45.26
1.5	3	20.6	-0.09	944	5.29	-14.3	47.72
2.0	4	20.7	-0.11	940	5.28	-14.4	56.16
2.5	5	20.7	-0.14	939	5.28	-14.6	50.24
3.0	6	20.7	-0.15	936	5.28	-14.7	47.79
8.5	7	20.7	-0.16	934	5.28	+15.2	47.63
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	9	m bgl,	lower screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, sulphuric odour					
Sample ID	MW40D					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0.0	0.6
0.5	0.8
1.0	1.2
1.5	1.3
2.0	1.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details						
Project Name / Site Location	Bunbury Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	MW4S	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	Refer to log	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions	11.19, 13/9/23, Sunny			Purged By	PT
Purge Method / Equipment	Twister Pump				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-purge)	5.43	m bgl	Observed Well Depth	7.00	m bgl
Height of Water Column (H)	1.57	m bgl	Estimated Bore Volume*	17	L
GW Level (post-purge)	5.60	m bgl	Total Volume Purged**	70	L
Appearance/Comments	Yellow Brown, Sulphuric odour, low turb.				

Sampling Details	1.71				
Date / Time / Weather Conditions	22/9/23 Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	7/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.59	m bgl	Observed Well Depth	7.00	m bgl
Height of Water Column	1.41	m bgl	Estimated Bore Volume*	~~15~~ ~15	L
GW Level (post sample)	5.63	m bgl	Total Volume of Micro-Purged	4	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.2	0.21	645	5.11	13.3	62.41
1.0	2	20.3	0.24	480.2	5.35	9.1	64.26
1.5	3	20.5	0.24	401.8	5.44	5.8	62.96
2.0	4	20.5	0.22	350.2	5.50	4.3	64.08
2.5	5	20.6	0.20	323.6	5.53	3.3	64.17
3.0	6	20.6	0.19	321.4	5.55	2.6	61.24
5.5	7	20.6	0.19	319.6	5.55	2.1	60.44
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	6.25	m bgl,	Mid WC			
Sample Observations (e.g. colour, sediment, sheen, odour)	Yellow, sulphuric odour, clear					
Sample ID	MW4S					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	4.9
0.5	3.6
1.0	2.5
1.5	2.1
2.0	1.9

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bank Spreadaw					
Project Name / Site Location	Proposed Warehouse Development				Project Number	219607
Well Construction Details	Well ID	MW41D	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Refer to log

Well Development Details					
Date / Time / Weather Conditions	20/9/23			Purged By	PT
Purge Method / Equipment	Foot valve, PFAS Free tubing				
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)	5.49	m bgl	Observed Well Depth	10.02	m bgl
Height of Water Column (H)	4.53	m bgl	Estimated Bore Volume*	50	L
GW Level (post-purge)	5.63	m bgl	Total Volume Purged**	150	L
Appearance/Comments	Pale yellow, clear, sulphuric odour				

Sampling Details					
Date / Time / Weather Conditions	22/9/23 Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	Yes	
GW Level (pre-micropurge)	5.58	m bgl	Observed Well Depth	10.00	m bgl
Height of Water Column	4.42	m bgl	Estimated Bore Volume*	249	L
GW Level (post sample)	5.65	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.5	1.33	1157	4.93	74.8	39.39
1.0	2	20.7	0.70	1195	5.05	70.9	30.91
1.5	3	20.7	0.33	1207	5.16	69.0	28.32
2.0	4	20.7	0.16	1210	5.22	67.5	28.85
2.5	5	20.7	0.09	1212	5.24	65.2	30.05
3.0	6	20.7	0.07	1212	5.26	64.8	34.12
3.5	7	20.7	0.05	1213	5.27	64.5	30.40
4.0	8	20.7	0.04	1214	5.27	63.9	31.24
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	9	m bgl,	Lower screen			
Sample Observations (e.g. colour, sediment, sheen, odour)	Pale yellow, clear, sulphuric odour					
Sample ID	MW41D					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	4.1
0.5	6.8
1.0	0.6
1.5	0.4
2.0	0.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Rouse Hill Meadow					
Project Name / Site Location	Proposed Townhouse development				Project Number	249609.01
Well Construction Details	Well ID	WG229I	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments	-> Actually WG229-S on review of provided log by client					

Well Development Details					
Date / Time / Weather Conditions				Purged By	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments	Unable to develop well with twister pump.				

Sampling Details					
Date / Time / Weather Conditions	22/9/23 Sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	No	
GW Level (pre-micropurge)	5.84	m bgl	Observed Well Depth	10.28	m bgl
Height of Water Column	4.44	m bgl	Estimated Bore Volume*	-	L
GW Level (post sample)	5.90	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.8	4.03	640	6.73	16.9	52.61
1.0	2	20.9	1.20	657	6.67	4.4	57.41
1.5	3	21.0	0.60	652	6.66	-5.4	63.32
2.0	4	21.0	0.24	647	6.66	-15.8	64.59
2.5	5	21.0	0.13	649	6.66	-21.0	65.34
3.0	6	21.0	0.06	649	6.66	-24.7	61.59
3.5	7	21.0	0.04	649	6.66	-25.8	62.38
4.0	8	21.0	0.02	649	6.66	-26.6	61.35

Notes: # Considered stabilised if three DO values are less than 0.5 mg/L; ^ Considered stabilised if three Turbidity values are less than 5 NTU

Sample Details						
Sampling Depth (rationale)	9	m bgl,	Lower screen / mid screen (Screen 8m)			
Sample Observations (e.g. colour, sediment, sheen, odour)	Dark yellow, clear, sulphuric odour					
Sample ID	WG229I -> On return well was WG229-S					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	4.7
0.5	4.5
1.0	4.3
1.5	4.2
2.0	4.2

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bardia warehouse					
Project Name / Site Location	Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	WG229-D	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions				Purged By	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments	Unable to develop well with hurster Pump				

Sampling Details					
Date / Time / Weather Conditions	22/9/23 Sunny			Sampled By	PT
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	NO	
GW Level (pre-micropurge)	7.50	m bgl	Observed Well Depth	29.35	m bgl
Height of Water Column	21.85	m bgl	Estimated Bore Volume*	-	L
GW Level (post sample)	7.69	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.5	9.61	546	6.05	-107.6	17.12
1.0	2	21.2	2.13	520	5.80	-100.0	12.40
1.5	3	21.2	1.37	498.1	5.41	-92.9	6.88
2.0	4	21.2	0.88	493.1	5.35	-87.2	4.11
2.5	5	21.2	0.53	491.1	5.24	-81.1	3.98
3.0	6	21.2	0.49	491.1	5.23	-80.0	2.35
~~3.5~~	7	21.2	0.47	491.2	5.23	-79.8	2.34
4.0	8	21.2	0.46	490.9	5.23	-77.8	2.36
↓	→						
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	28.5	m bgl,	lower screen (Screen ~ 26.5-29.5)			
Sample Observations (e.g. colour, sediment, sheen, odour)	Clear, no odour					
Sample ID	WG229-D					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID, 0.0 | 1.9
0.5 | 1.7
1.0 | 1.3
1.5 | 1.3
2.0 | 1.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bunbury Meadow					
Project Name / Site Location	Proposed Warehouse Development				Project Number	219609.01
Well Construction Details	Well ID	WG2305	Drilling Method	Below 10cm	Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)		Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions				Purged By	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments	Unable to develop well ~~with~~ with twister pump.				

Sampling Details					
Date / Time / Weather Conditions	22/9/23			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	No	
GW Level (pre-micropurge)	5.41	m bgl	Observed Well Depth	10.36	m bgl
Height of Water Column	4.95	m bgl	Estimated Bore Volume*	–	L
GW Level (post sample)	5.45	m bgl	Total Volume of Micro-Purged	8	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	19.6	4.10	240.1	5.14	177.9	38.41
1.0	2	19.7	3.43	211.4	5.27	172.0	36.14
1.5	3	19.7	3.39	200.2	5.42	167.4	42.61
2.0	4	19.7	3.50	200.4	5.43	163.2	48.47
2.5	5	19.7	3.53	201.6	5.44	161.7	49.62
3.0	6	19.7	3.54	222.8	5.44	160.9	50.43
3.5	7	19.7	3.55	222.0	5.44	159.6	51.22
↵							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	~~WG~~ 9	m bgl,	Lower screen/mid screen (Screen 8-11m)			
Sample Observations (e.g. colour, sediment, sheen, odour)	~~WG~~ Pale yellow, clear, sulphuric odour					
Sample ID	~~Note~~ WG2305					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID

0.0	1.8
0.5	2.2
1.0	2.3
1.5	2.3
2.0	2.3

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bankstown					
Project Name / Site Location	Proposed Warehouse Development				Project Number	219607.01
Well Construction Details	Well ID	WG233I	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	10.95	Stick Up (m)	
Survey Information	Easting		Northing		Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions				Purged By	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments	Unable to develop well with twister pump.				

Sampling Details					
Date / Time / Weather Conditions	22/9/23 Sunny			Sampled By	
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	-	mm	Confirmed with Bailer? (Y / N)	No	
GW Level (pre-micropurge)	6.70	m bgl	Observed Well Depth	21.59	m bgl
Height of Water Column	14.89	m bgl	Estimated Bore Volume*	-	L
GW Level (post sample)	6.80	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	20.8	1.80	428.6	6.10	8.6	12.62
1.0	2	21.1	0.96	447.6	5.99	6.5	16.20
1.5	3	21.1	0.54	455.5	5.93	4.0	18.17
2.0	4	21.1	0.32	457.7	5.88	1.4	22.57
2.5	5	21.1	0.21	459.8	5.88	0.8	21.67
3.0	6	21.1	0.18	464.9	5.88	0.2	22.45
3.5	7	21.1	0.16	465.3	5.88	-0.1	22.38
SW							
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stabilised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	20	m bgl,	~~mid screen~~ lower screen/mid screen (screen 18-21m)			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slightly yellow, slight sulphuric odour					
Sample ID	WG233I					
QAQC Samples	Replicate		Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	2.8
0.5	2.3
1.0	2.1
1.5	2.1
2.0	2.0

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Groundwater (GW) Field Sheet

Project and Bore Installation Details	Bandys meadows					
Project Name / Site Location	Proposed Warehouse development				Project Number	219609.01
Well Construction Details	Well ID	WGT233-D	Drilling Method		Hole Diameter (m)~	
	Well Depth (m bgl)		Screened (m bgl)	109	Stick Up (m)	
Survey Information	Easting		Northing	Refer to	Elevation RL	
GW Level During Drilling		m bgl				
Contaminants/Comments						

Well Development Details					
Date / Time / Weather Conditions				Purged By	
Purge Method / Equipment					
Product observed / Thickness		mm	Confirmed with Bailer? (Y / N)		
GW Level (pre-purge)		m bgl	Observed Well Depth		m bgl
Height of Water Column (H)		m bgl	Estimated Bore Volume*		L
GW Level (post-purge)		m bgl	Total Volume Purged**		L
Appearance/Comments	Unable to develop well with tuster pump.				

Sampling Details					
Date / Time / Weather Conditions	22/9/23 sunny			Sampled By	PJ
Sampling Method / Equipment	Peri Pump				
WQM Model	YSI		WQM Calibration Date	19/9/23	
Product observed / Thickness	–	mm	Confirmed with Bailer? (Y / N)	No	
GW Level (pre-micropurge)	6.68	m bgl	Observed Well Depth	30.00	m bgl
Height of Water Column	23.32	m bgl	Estimated Bore Volume*	–	L
GW Level (post sample)	6.73	m bgl	Total Volume of Micro-Purged	10	L

Water Quality Parameters

Time	Cumulative Volume (L)	Temp (°C)	DO (mg/L)#	EC (µS or mS/cm)	pH	Redox (mV)	Turbidity^
Stabilisation Target (3 readings)		0.2	+/- 10%	+/- 5%	+/- 0.1	+/- 10 mV	+/- 10%
0.5	1	21.0	1.40	409.4	5.67	51.1	7.98
1.0	2	21.0	0.63	407.4	5.67	46.5	8.72
1.5	3	21.0	0.43	407.1	5.67	38.6	9.99
2.0	4	21.0	0.31	408.8	5.68	33.4	11.86
2.5	5	21.0	0.22	409.2	5.68	28.4	9.82
3.0	6	21.0	0.20	409.7	5.68	25.6	8.89
3.5	7	21.0	0.19	409.9	5.68	24.9	10.21
Notes:	# Considered stabilised if three DO values are less than 0.5 mg/L			^ Considered stablised if three Turbidity values are less than 5 NTU			

Sample Details						
Sampling Depth (rationale)	29	m bgl.	lower/ind screen, lower WC (screen 29.7 – 32.7)			
Sample Observations (e.g. colour, sediment, sheen, odour)	clear, slight sulphuric odour					
Sample ID	WGT223-D					
QAQC Samples	Replicate	BD1/20230922	Triplicate		Other	
Sample Containers Quantity / Preservation / Filtration	Amber glass		Plastic		PFAS (no teflon)	
	Metals (F/UF) (HNO3)		Phenols/COD/NH3 (H2SO4)		Vials (HCl)	
	Ferrous/Ferric Iron (HCl)		Cyanides/Chromium (NaOH)		Other	
Comments						

*Estimated Well Volume = H * F	Std. Drilling Diameter (m)~	NMLC (0.075)	HQ (0.096)	PQ (0.1226)	SFA (0.125)	HFA (0.194)
**Purge Target: min. 3 well volumes	Factor (F):	2.8	3.7	5.2	5.4	11.1

PID	
0	3.6
0.5	4.1
1.0	3.7
1.5	3.7
2.0	3.7

Soil Vapour Sampling Sheet						Douglas Partners Geotechnics | Environment | Groundwater
Project and Bore Installation Details						
Project Name:	Proposed Warehouse Development					
Project Number:	219609.01					
Client	ESR Australia					
Sample ID / Bore No.	BH301					
Site Location:	49-59 Stephen Road					
GPS Co-ord:						
Elevation (RL, m AHD)						
Installation Date:						
Well / Pin Construction Details						
Weather	Humidity 29%		Temperature 20.3		Barometric 1011.4	
Canister Flow Controller	100 mL/min					
Carbon / TD Tube Flow Controller	84.5 mL/min		Type	Rotameter, flow flow adaptor and vacuum gauge		
Pump ID	SN 115-28213					
Date/Time:	5/9/23					
Sampled By:	PT					

Purge Details / Field Readings						
Pre Purge PID Reading	0	ppm				
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15sec	0	1.6	20.2	0	0
Purge Method						
Post Purge PID Reading	0.2	ppm				
Approximate Volume Purged	500 mL	L				

Pre-Start QA Tests				
Shut In Test				
	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-28	in Hg	3.0	kPa
Duration	30 seconds	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	PID in Sample Train		PID in Shroud	
	0.1	ppm	225	ppm
Pass / Fail	PASS			

Sampling Details - Primary				
	Canister		Carbon Tube / TD Tube	
ID Number	2278		0171504143	
Regulator Number	1870		N/A	
Start Time	10.51	min	10.37	min
Start Vacuum	-28	in Hg	0.5	kPa
Stop Time	11.00	min	10.42	min
Stop Vacuum	-7	in Hg	0.5	kPa
Approximate Sample Volume	~~~~ 7L	mL	84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate				
	Canister		Carbon Tube / TD Tube	
ID Number	3300		0171504399	
Regulator Number	492		N/A	
Start Time	10.51	min	10.43	min
Start Vacuum	-30	in Hg	0.5	kPa
Stop Time	11.01	min	10.48	min
Stop Vacuum	-7	in Hg	0.5	kPa
Approximate Sample Volume	7L	mL	84.5	mL/min

Sampling Details - Shroud			
Carbon / TD Tube ID			
Start Time		min	
Stop Time		min	
Sample Time		min	
Approximate Sample Volume		mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

Douglas Partners
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Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH303
Site Location:	49-59 Stephen Road
GPS Co-ord:	GL
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	→ Refer to logs
Weather	Humidity ~~Raining~~ 67% Temperature 18.9°C Barometric 1010.1
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN 115-28213
Date/Time:	5/7/23
Sampled By:	BJ

Purge Details / Field Readings

Pre Purge PID Reading	1.0 ppm					
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0	0.2	20.9	0	0
Purge Method						
Post Purge PID Reading	6.6 ppm					
Approximate Volume Purged	500 mL	L				

Pre-Start QA Tests

Shut In Test				
	Canister		**Carbon Tube / TD Setup**	
Vacuum Applied	-30	in Hg	3	kPa
Duration	30 seconds	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	**PID in Sample Train**		**PID in Shroud**	
	0.4	ppm	368	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		**Carbon Tube / TD Tube**	
ID Number	1705		014011025S	
Regulator Number	610		N/A	
Start Time	8.57	min	8.48	min
Start Vacuum	-30	in Hg	0.6	kPa
Stop Time	9.07	min	853	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~0.7 L	mL	84.5	mL / min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		**Carbon Tube / TD Tube**	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

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Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH304
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	→ Refer to logs
Weather	Humidity 41 % Temperature 20.5 °C Barometric 1011.1
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN 115728013
Date/Time:	5/9/23
Sampled By:	

Purge Details / Field Readings

Pre Purge PID Reading	0.7 ppm					
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0	13.6	12.0	0	0
Purge Method						
Post Purge PID Reading	0.6 ppm					
Approximate Volume Purged	500 mL		L			

Pre-Start QA Tests

Shut In Test				
	Canister		**Carbon Tube / TD Setup**	
Vacuum Applied	-29	in Hg	2.9	kPa
Duration	30 secs	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	**PID in Sample Train**		**PID in Shroud**	
	0.8	ppm	207	ppm
Pass / Fail				

Sampling Details - Primary

	Canister		**Carbon Tube / TD Tube**	
ID Number	~~1447~~ 1835		0171509405	
Regulator Number	~~496~~ 497		N/A	
Start Time	9.46	min	9.40	min
Start Vacuum	-29	in Hg	0.5	kPa
Stop Time	9.57	min	9.45	min
Stop Vacuum	-7	in Hg	0.5	kPa
Approximate Sample Volume	~~10.7~~ 6L	mL	84.5	mL /min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		**Carbon Tube / TD Tube**	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	Canister and regulator swapped due to regulator not recording reading

Soil Vapour Sampling Sheet

Douglas Partners Geotechnics | Environment | Groundwater

Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH306
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	→ Refer to logs

Weather	Humidity	67%	Temperature	18.8°C	Barometric 1010.1
Canister Flow Controller	100	mL/min			
Carbon / TD Tube Flow Controller	84.5	mL/min	Type	Rotameter, flow flow adaptor and vacuum gauge	
Pump ID	SN115282B				
Date/Time:	5/9/23				
Sampled By:	KJ				

Purge Details / Field Readings

Pre Purge PID Reading	0.8	ppm				
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0	0.2	20.7	0	0
Purge Method						
~~Post Purge~~ PID Reading	0.6	ppm	Shroud 175 ppm			
Approximate Volume Purged	500	L				

Pre-Start QA Tests

Shut In Test				
	Canister		**Carbon Tube / TD Setup**	
Vacuum Applied	-29	in Hg	3	kPa
Duration	30 secs	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	**PID in Sample Train**		**PID in Shroud**	
	0.6	ppm	175	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		**Carbon Tube / TD Tube**	
ID Number	2463		0140110270	
Regulator Number	617		N/A	
Start Time	8:16	min	8:09	min
Start Vacuum	-29	in Hg	0.6	kPa
Stop Time	8:27	min	8:14	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~07.5L	mL	~~PASS~~ 84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		**Carbon Tube / TD Tube**	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID	0140110203		
Start Time	8:01	min	
Stop Time		min	
Sample Time	[illegible]	min	@ 84.5 mL/min
Approximate Sample Volume		mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

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Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	328C
Site Location:	49-59 Stephen Road
GPS Co-ord:	GT
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	→ Refer to logs

Weather	Humidity	18%	Temperature	23.6	Barometric 1011.0
Canister Flow Controller	100	mL/min			
Carbon / TD Tube Flow Controller	84.5	mL/min	Type	Rotameter, flow flow adaptor and vacuum gauge	
Pump ID	SN115 28213				
Date/Time:	5/9/23				
Sampled By:	DT				

Purge Details / Field Readings

Pre Purge PID Reading	1.1	ppm	

Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0.1	3.0	17.0	0	0

Purge Method			
Post Purge PID Reading	0.9	ppm	
Approximate Volume Purged	500 mL	L	

Pre-Start QA Tests

Shut In Test

	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-27	in Hg	3.00	kPa
Duration	0.5	min	05	min
Pass / Fail	PASS		PASS	

Leak Test

	PID in Sample Train		PID in Shroud	
	0.7	ppm	201	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	2242		0140110249	
Regulator Number	818		N/A	
Start Time	2.36	min	2.30	min
Start Vacuum	-27	in Hg	0.6	kPa
Stop Time	2.47	min	2.35	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~0.7 L	mL	84.5	mL / min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

Douglas Partners
Geotechnics | Environment | Groundwater

Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	329B
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to logs
Weather	Humidity 18% Temperature 22.1 Barometric 1011.1
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN115282B
Date/Time:	5/11/23
Sampled By:	DT

Purge Details / Field Readings

Pre Purge PID Reading	0.8 ppm					
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15sec	0.1	5.5	14.7	0	0
Purge Method						
Post Purge PID Reading	0.6 ppm					
Approximate Volume Purged	500 mL L					

Pre-Start QA Tests

Shut In Test	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-28	in Hg	3.0	kPa
Duration	0.5	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	PID in Sample Train		PID in Shroud	
	0.5	ppm	360	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	~~KAS24~~ 1686		0140110257	
Regulator Number	1751		N/A	
Start Time	12.24	min	12.19	min
Start Vacuum	-28	in Hg	0.6	kPa
Stop Time	12.34	min	12.28	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID			
Start Time		min	
Stop Time		min	
Sample Time		min	
Approximate Sample Volume		mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

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Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	329C
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to logs

Weather	Humidity	18%	Temperature	22.1°C	Barometric	1011.1	
Canister Flow Controller	100	mL/min					
Carbon / TD Tube Flow Controller	84.5	mL/min	Type	Rotameter, flow flow adaptor and vacuum gauge			
Pump ID	SV115 28213						
Date/Time:	5/9/23						
Sampled By:	PS						

Purge Details / Field Readings

Pre Purge PID Reading	0.6	ppm					
Bulk Gas readings	Time	Concentration (% v/v)			H_2S (ppm)	CO (ppm)	
		CH_4	CO_2	O_2			
	15sec	0	1.8	19.5	0	0	
Purge Method							
Post Purge PID Reading	0.4	ppm					
Approximate Volume Purged	500mL	L					

Pre-Start QA Tests

Shut In Test				
	Canister		**Carbon Tube / TD Setup**	
Vacuum Applied	-28	in Hg	3.0	kPa
Duration	30 seconds	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	**PID in Sample Train**		**PID in Shroud**	
	0.4	ppm	192	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		**Carbon Tube / TD Tube**	
ID Number	1092		0140110251	
Regulator Number	1749		N/A	
Start Time	12.00	min	11.54	min
Start Vacuum	-28	in Hg	0.6	kPa
Stop Time	12.11	min	11.59	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		**Carbon Tube / TD Tube**	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

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Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	330
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to logs
Weather	Humidity 14% Temperature 23.6 Barometric 1011.1
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN11528213
Date/Time:	5/9/23
Sampled By:	BT

Purge Details / Field Readings

Pre Purge PID Reading	0.7	ppm				
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0.1	4.3	16.0	0	0
Purge Method						
Post Purge PID Reading	0.5	ppm				
Approximate Volume Purged	500 mL	L				

Pre-Start QA Tests

Shut In Test				
	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-28	in Hg	3.0	kPa
Duration	0.5	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	PID in Sample Train		PID in Shroud	
	0.5	ppm	441	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	3515		0171504144	
Regulator Number	1779		N/A	
Start Time	1.00	min	12.54	min
Start Vacuum	-28	in Hg	0.6	kPa
Stop Time	1.10	min	12.59	min
Stop Vacuum	-7	in Hg	0.6	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL /min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	

BH331

Soil Vapour Sampling Sheet — Douglas Partners, Geotechnics | Environment | Groundwater

Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH331
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to logs, Canister taken from well headspace
Weather	Humidity 14% Temperature 23.6 °C Barometric 1011.1
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN1528213
Date/Time:	5/9/23
Sampled By:	RS

Purge Details / Field Readings

Pre Purge PID Reading	1.1 ppm					
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	0.1	10.3	10.0	0	0
Purge Method						
Post Purge PID Reading	0.9 ppm					
Approximate Volume Purged	500 mL					

Pre-Start QA Tests

Shut In Test	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-29	in Hg	3.0	kPa
Duration	0.5	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	PID in Sample Train		PID in Shroud	
	0.7	ppm	144	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	2529		0140110247	
Regulator Number	2085		N/A	
Start Time	1.59	min	1.53	min
Start Vacuum	-29	in Hg	0.6	kPa
Stop Time	2.11	min	1.58	min
Stop Vacuum	-6	in Hg	0.6	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL /min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID			
Start Time		min	
Stop Time		min	
Sample Time		min	
Approximate Sample Volume		mL	

Comments / Observations:	NOTE -> ~~Canister~~ leaked from sample to lab Canister and hence not analysed

Soil Vapour Sampling Sheet

Douglas Partners
Geotechnics | Environment | Groundwater

Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH33
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to logs

Weather	Humidity	83 %	Temperature	18.4	Barometric	1021.7	
Canister Flow Controller	100	mL/min					
Carbon / TD Tube Flow Controller	84.5	mL/min	Type	Rotameter, flow flow adaptor and vacuum gauge			
Pump ID	SN1157823						
Date/Time:	26/9/25						
Sampled By:	PJ						

Purge Details / Field Readings

Pre Purge PID Reading	10.4	ppm	

Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	55sec	0	10.1	13.9	0	0

Purge Method			
Post Purge PID Reading	9.6	ppm	
Approximate Volume Purged	500 mL	L	

Pre-Start QA Tests

Shut In Test

	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-29	in Hg	3.0	kPa
Duration	30 seconds	min	0.5	min
Pass / Fail	PASS		PASS	

Leak Test

	PID in Sample Train		PID in Shroud	
	8.4	ppm	297	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	3648		8744014878	
Regulator Number	492		N/A	
Start Time	8:35	min	8:28	min
Start Vacuum	-29	in Hg	0.5	kPa
Stop Time	8:47	min	8:33	min
Stop Vacuum	-7	in Hg	0.5	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID		
Start Time	min	
Stop Time	min	
Sample Time	min	
Approximate Sample Volume	mL	

Comments / Observations:	

Soil Vapour Sampling Sheet

Douglas Partners Geotechnics | Environment | Groundwater

Project and Bore Installation Details

Project Name:	Proposed Warehouse Development
Project Number:	219609.01
Client	ESR Australia
Sample ID / Bore No.	BH533
Site Location:	49-59 Stephen Road
GPS Co-ord:	
Elevation (RL, m AHD)	
Installation Date:	
Well / Pin Construction Details	Refer to log
Weather	Humidity 83% Temperature 18.4 Barometric 1021.6
Canister Flow Controller	100 mL/min
Carbon / TD Tube Flow Controller	84.5 mL/min Type Rotameter, flow flow adaptor and vacuum gauge
Pump ID	SN115280B
Date/Time:	26/9/23
Sampled By:	RS

Purge Details / Field Readings

Pre Purge PID Reading	15.7 ppm					
Bulk Gas readings	Time	Concentration (% v/v) CH_4	CO_2	O_2	H_2S (ppm)	CO (ppm)
	15 sec	2.3	11.4	7.1	0	0
Purge Method						
Post Purge PID Reading	21.4 ppm					
Approximate Volume Purged	500 mL L					

Pre-Start QA Tests

Shut In Test	Canister		Carbon Tube / TD Setup	
Vacuum Applied	-29	in Hg	3.0	kPa
Duration	30 seconds	min	0.5	min
Pass / Fail	PASS		PASS	
Leak Test	PID in Sample Train		PID in Shroud	
	20.4	ppm	310	ppm
Pass / Fail	PASS			

Sampling Details - Primary

	Canister		Carbon Tube / TD Tube	
ID Number	3511		0140110435	
Regulator Number	1982		N/A	
Start Time	8.07	min	8.01	min
Start Vacuum	-29	in Hg	0.5	kPa
Stop Time	8.17	min	8.06	min
Stop Vacuum	-7	in Hg	0.5	kPa
Approximate Sample Volume	~0.7L	mL	84.5	mL/min
	Note: recommended end vacuum of -7 in Hg (~75% full)		Note: recommended < 2.5 kPa induced vacuum (ASTM D7663)	

Sampling Details - Replicate

	Canister		Carbon Tube / TD Tube	
ID Number				
Regulator Number			N/A	
Start Time		min		min
Start Vacuum		in Hg		kPa
Stop Time		min		min
Stop Vacuum		in Hg		kPa
Approximate Sample Volume		mL		mL

Sampling Details - Shroud

Carbon / TD Tube ID	0171504398		
Start Time	7.54	min	
Stop Time	-	min	
Sample Time	1 min	min	84.5 mL/min
Approximate Sample Volume		mL	

Comments / Observations:	

Appendix I5

Calibration Documentation

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

Certificate of Service and Calibration

Gas Detector

MiniRAE Lite+

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	MiniRAE 3000 (PGM 7320)
Serial Number	590-913734
Client Name	Cathy Li (Douglas Partners Pty Ltd)
Project Number	SY281644

Instrument Check			
Item	Test	Test Passed	Comments
Li-Ion Rechargeable Battery	Battery Charge and Drain	✓	Unit runs for > 8 hours on a full charge
Charger and Power Supply	Operation/Check	✓	No damage
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Pump	Flow Check	✓	Flow rate > 0.5 L/min
Monitor Housing	Condition/Check	✓	No damage
Rubber Boot	Check	✓	Clean, no damage
Flexi Probe	Condition/Check	✓	No leaks, no damage
Water Trap Filter	Visual Check	✓	Clean
Alarms	Audible, Visual, Vibration Check	✓	All modes of alarms are functional
Data Logger	Operation	✓	Unit records data, default set at 60 seconds
Lamp and Sensor	Clean and Calibration	✓	Lamp and PID sensor cleaned and calibrated
PCB	Operation	✓	Unit is fully functional
Firmware	Version	✓	v2.20A

Instrument Readings					
Parameter	Calibration Gas	Concentration	Reference No.	Zero Reading	Span Reading
PID (10.6eV)	Isobutylene	100 ppm	WO205484-8	0 ppm	100.3 ppm

Declaration

WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using gases of known concentrations.

Calibrated By	William Pak
Calibration Date	12/04/2023
Calibration Due	12/10/2023

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

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WAMSCIENTIFIC
Your water and air monitoring equipment specialists

Certificate of Service and Calibration

Gas Detector

MiniRAE Lite+

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	MiniRAE 3000 (PGM 7320)
Serial Number	590-913734
Client Name	Cathy Li/Henri Dubourdieu (Douglas Partners Pty Ltd)
Project Number	SY282346

Instrument Check			
Item	Test	Test Passed	Comments
Li-Ion Rechargeable Battery	Battery Charge and Drain	✓	Unit runs for > 8 hours on a full charge
Charger and Power Supply	Operation/Check	✓	No damage
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Pump	Flow Check	✓	Flow rate > 0.5 L/min
Monitor Housing	Condition/Check	✓	No damage
Rubber Boot	Check	✓	Clean, no damage
Flexi Probe	Condition/Check	✓	No leaks, no damage
Water Trap Filter	Visual Check	✓	Clean
Alarms	Audible, Visual, Vibration Check	✓	All modes of alarms are functional
Data Logger	Operation	✓	Unit records data, default set at 60 seconds
Lamp and Sensor	Clean and Calibration	✓	Lamp and PID sensor cleaned and calibrated
PCB	Operation	✓	Unit is fully functional
Firmware	Version	✓	v2.20A

Instrument Readings					
Parameter	Calibration Gas	Concentration	Reference No.	Zero Reading	Span Reading
PID (10.6eV)	Isobutylene	100 ppm	980514	0 ppm	100.4 ppm

Declaration

WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using gases of known concentrations.

Calibrated By	William Pak
Calibration Date	10/10/2023
Calibration Due	10/04/2024

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

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AES
sensing safety

Calibration and Service Report – PID

Company:	Douglas Partners Pty Ltd (Sydn	**Manufacturer:**	RAE	**Serial #:**	595-002219
Contact:	Henri Dubourdieu	**Instrument:**	MINIRAE LITE SN: 595-002219	**Asset #:**	PID 4
Address:	PO Box 472 West Ryde NSW 1685	**Model:**	MINIRAE LITE	**Part #:**	059-A126-000
		Configuration:	VOC 10.6EV	**Sold:**	01.03.2017
		Wireless:	-	**Last Cal:**	16.09.2022
Phone:	0298090666	**Network ID:**	-	**Job #:**	148152
Fax:		**Unit ID:**	-	**Cal Spec:**	
Email:	henri.dubourdieu@douglaspartn	**Details:**		**Order #:**	SY281596

Item	Test	Pass/Fail	Comments	Serial Number
Battery	NiCd, NiMH, Dry cell, LiIon	P		
Charger	Power Supply	-		
	Cradle, Travel Charger	-		
Pump	Flow	x	Cleaned pump, >450ml/min	
Filter	Filter, fitting, etc	x	Dirty, replaced	
Alarms	Audible, visual, vibration	P		
Display	Operation	P		
Switches	Operation	P		
PCB	Operation	P		
Connectors	Condition	P		
Firmware	Version	P	V2.22A	
Datalogger	Operation	P		
Monitor Housing	Condition	P	(Small cracks x 3 on the base - glued)	
Case	Condition / Type	-		
Sensors				
PID	Lamp	P	Cleaned	
PID	Sensor	P	Cleaned (corrosion shown)	
THP	Sensor	P		

Engineer's Report

Cleaned lamp, lamp housing and sensor electrode (corrosion shown)
Checked moisture sensitivity
Cleaned pump assembly, checked flowrate and stall values
Checked unit settings and PC configuration
Unit serviced and calibrated.

AES
sensing safety

Calibration and Service Report – PID

Company:	Douglas Partners Pty Ltd (Sydn	**Manufacturer:**	RAE	**Serial #:**	595-002219
Contact:	Henri Dubourdieu	**Instrument:**	MINIRAE LITE SN: 595-002219	**Asset #:**	PID 4
Address:	PO Box 472 West Ryde NSW 1685	**Model:**	MINIRAE LITE	**Part #:**	059-A126-000
		Configuration:	VOC 10.6EV	**Sold:**	01.03.2017
		Wireless:	-	**Last Cal:**	16.09.2022
Phone:	0298090666	**Network ID:**	-	**Job #:**	148152
Fax:		**Unit ID:**	-	**Cal Spec:**	
Email:	henri.dubourdieu@douglaspartn	**Details:**		**Order #:**	SY281596

Calibration Certificate

Sensor	Type	Serial No.	Span Gas	Concentration	Traceability Lot #	CF	Reading	
							Zero	Span
Oxygen								
LEL								
PID	050-0000-004. 10.6EV 1/2 INCH LAMP	S023060045TC/1062R115578	Isobutylene	100ppm	A00947		0	100.0
Battery	059-3051-000. MINIRAE 3000 LI-ION BATTERY	159TCW0499						
Toxic 1								
Toxic 2								
Toxic 3								
Toxic 4								
Toxic 5								
Toxic 6								

Calibrated/Repaired by: JERRY JI Date: 08.03.2023 Next Due: 08.09.2023

ThermoFisher SCIENTIFIC

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SERVICE OR REPAIR: GA5000

COMPANY	Douglas Partners Pty Ltd				
CONTACT	David Holden				
SERIAL NO.	G500665	**CALL NO.**	SV23 03 24 0038		

REQUEST/PROBLEM DESCRIPTION
Possible water ingress and service required.

This equipment has been calibrated to the manufacturer's specifications, using the standards shown below:

SENSOR	STANDARD	TRACEABILITY LOT NO.	PRE CALIBRATION READING	POST CALIBRATION READING
CH_4	0 %	(Air)	0 %	0.0 %
	60 %	302-402360911-17	60.6 %	60.0 %
CO_2	40 %	302-402360911-17	39.7 %	40.0 %
O_2	0 %	(N2) 1415414-51	0.1 %	0.0 %
	20.9 %	(Air)	21.9 %	20.9 %
CO	0 ppm	(Air)	0 ppm	0 ppm
	250 ppm	1122670-12	235 ppm	250 ppm
H_2S	0 ppm	(Air)	0 ppm	0 ppm
	250 ppm	950-081138	243 ppm	250 ppm

- **Checked battery condition. Replaced as insufficient run time and self discharges.**
- **Checked for adequate flow and leak tested. 0.58L/M**
- **Checked internal filters: (Inlet replaced as a precaution)**
- **Set next service due or gas check date: 28/03/2024**

COMMENTS/ADDITIONAL REPAIRS/SERVICES PERFORMED
Pump checked OK Distributor service performed as per manufacturer's specifications.

SERVICED BY	Sean Gannon	**COMPLETED**	28/03/2023
SIGNATURE	Sean Gannon		

ThermoFisher SCIENTIFIC

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SERVICE OR REPAIR: GA5000

COMPANY	Douglas Partners Pty Ltd				
CONTACT	David Holden				
SERIAL NO.	G500665	**CALL NO.**	SV2310250041		

REQUEST/PROBLEM DESCRIPTION
Regular service and calibration required

This equipment has been calibrated to the manufacturer's specifications, using the standards shown below:

SENSOR	STANDARD	TRACEABILITY LOT NO.	PRE CALIBRATION READING	POST CALIBRATION READING
CH_4	0 %	302-402539709-26	0.0 %	0.0 %
	60 %	302-402360911-8	60.7 %	60.0 %
CO_2	40 %	302-402360911-8	43.5 %	40.0 %
O_2	0 %	302-402539709-26	0.1 %	0.0 %
	20.9 %	(Air)	20.8 %	20.9 %
CO	0 ppm	302-402655659-55	0 ppm	0 ppm
	250 ppm	1122670-12	100 ppm	100 ppm
H_2S	0 ppm	302-402539709-26	0 ppm	0 ppm
	250 ppm	WO354587-1	248 ppm	250 ppm

- **Checked battery condition.**
- **Checked for adequate flow and leak tested.**
- **Checked internal filters**
- **Set next service due or gas check date: 27/10/2024**

COMMENTS/ADDITIONAL REPAIRS/SERVICES PERFORMED
Pump checked Inlet and outlet filters replaced. Distributor service performed as per manufacturer's specifications.

SERVICED BY	Martin Slapp	**COMPLETED**	27/10/2023
SIGNATURE	M. Slapp		

Calibration & Service Report
Water Quality Meter

Company:	Active Environmental Solutions Hire	**Manufacturer:**	YSI	**Serial #:**	21D221627
Address:	Unit 16, 191 Parramatta Road AUBURN NSW 2144	**Instrument/Model:**	ProDSS Handheld Water Quality Meter	**Cable Length:**	21D103465,1M
Phone:	02 9716 5966 | **Fax:** 02 9716 5988	**Client Company:**	Douglas Partners	**Client Email:**	
Email:	hire@aesoultions.com.au	**Client Name:**	Henri Dubourdieu	**Client Phone:**	

Item	Test	Pass	Comments
Battery	Charged	✓	In good Condition
	Battery Saver	✓	Automatically turns off after 15 minutes if not used
Connections	Condition	✓	Good, clean
Cable	Condition	✓	Clean, no tears
Display	Operation	✓	
Firmware	Version	✓	1.3.12
Keypad	Operational	✓	
Display	Screen	✓	Works normal
Unit	Condition, seals and O-rings	✓	
Monitor housing	Condition	✓	
pH			
Condition		✓	
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓	
pH slope		✓	
Response time < 90 seconds		✓	
Calibrated and conforms to manufacturer's specifications		✓	
ORP			
Condition		✓	
Response time < 90 seconds		✓	
within ± 80mv of reference Zobell Reading		✓	
Calibrated and conforms to manufacturer's specifications		✓	Variance range ± 20mV
Conductivity			
Condition		✓	Good, clean
Calibrated and conforms to manufacturer's specifications		✓	°C
Turbidity			
Calibrated and conforms to manufacturer's specifications		✓	
Condition		✓	
Dissolved Oxygen			
Condition		✓	Good, clean
Calibrated and conforms to manufacturer's specifications		✓	

Parameter	Standards	Reference	Calibration Point	Before	After	Units
pH	pH 4.00	378644	4.00	3.97	4.00	pH
pH	pH 10.00	380833	10.00	9.87	10.00	pH
pH	pH 7.00	378645	7.00	6.93	7.00	pH
Conductivity	2760 µs/cm at 25°C	378284	2760	3274	2760	µs/cm
ORP (Ref. check only)	Zobell Solution	367761	245	243.2	245	mV
Zero DO	Na2So3 in distilled water	-	0	1.6	0	%
100% Dissolved Oxygen	100% Air Saturation	Air	100.2	103	100.2	%
Zero Turbidity	0 FNU	Demineralized water	0	-2.08	0	FNU
Turbidity	124.00 FNU	21G21250177	124	41.6	124	FNU

Calibrated By: Satheesh Mani

Calibration Date: 16/05/2023 **Calibration Due:** 16/11/2023

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Meadow Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite+

Serial No.: 590-913734

DP Reference: PID 5

Other: 10.6eV Lamp

Calibration

Date(s): 10/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 116.6

Post-calibration Reading 100.0

Approved: 10/8/23

Date: PJ

Douglas Partners
Geotechnics / Environment / Groundwater

CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference:

Other: 10.6eV Lamp

Calibration

Date(s): 11/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 102.3

Post-calibration Reading 100.0

Approved: PJ

Date: 11/8/23

Douglas Partners
Geotechnics / Environment / Groundwater

CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minivae Lite +

Serial No.: 590-913734

DP Reference: PID 5

Other: 10.6eV Lamp

Calibration

Date(s): 14/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 101.2

Post-calibration Reading 99.9

Approved: PJ

Date: 14/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Baulksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference: PID 5

Other: 10.6eV Lamp

Calibration

Date(s): 15/8/23 Operator(s):

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 96.9

Post-calibration Reading 100.1

Approved: PJ

Date: 15/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Bankstown
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell Miniae Life +
Serial No.: 590-913734
DP Reference: PID.5
Other: 10.6eV Lamp

Calibration
Date(s): 16/8/23 Operator(s): PT, NW
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 102.4
Post-calibration Reading 100.0

Approved: PJ
Date: 16/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell MiniRae Lite +

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 17/8/23 Operator(s): PT

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 106.4

Post-calibration Reading 100.2

Approved: PT

Date: 17/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite+

Serial No.: 590-915734

DP Reference: 7105

Other: 10.6eV Lamp

Calibration

Date(s): 18/8/23 Operator(s):

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 104.2

Post-calibration Reading 100.1

Approved: PJ

Date: 18/8/23

Douglas Partners
Geotechnics / Environment / Groundwater

CALIBRATION RECORD

Project: Baulkham Hills

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell MiniRae Lite +

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 2/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 101.2

Post-calibration Reading 100.0

Approved: PJ

Date: 2/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Bankstown
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell MiniRae Lite +
Serial No.: 590-913734
DP Reference: P105
Other: 10.6eV Lamp

Calibration
Date(s): 2/2/8 Operator(s): PJ
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 98.4
Post-calibration Reading 100.0

Approved: PT
Date: 2/2/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Miniae Lite +

Serial No.: 590-913 734

DP Reference: PID 5

Other: 10.6eV Lamp

Calibration

Date(s): 23/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 102.2

Post-calibration Reading 100.0

Approved: PJ

Date: 23/8/23

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell MiniRae Lite +
Serial No.: 590-913734
DP Reference: P105
Other: 10.6eV Lamp

Calibration
Date(s): 24/8/23 Operator(s):
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 101.7
Post-calibration Reading 100.1

Approved: 24/8/23
Date: PT

Douglas Partners
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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference: PID 5

Other: 10.6eV Lamp

Calibration

Date(s): 25/8/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 96.8

Post-calibration Reading 100.3

Approved: PT

Date: 25/8/23

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CALIBRATION RECORD

Project: Bankstown
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell Minirae Lite +
Serial No.: 590 - 913734
DP Reference: PID5
Other: 10.6eV Lamp

Calibration
Date(s): 28/8/23 Operator(s): PT
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 101.4
Post-calibration Reading 100.0

Approved: PT
Date: 28/8/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell Miniae Lite+
Serial No.: 590-913734
DP Reference: P105
Other: 10.6eV Lamp

Calibration
Date(s): 29/8/23 Operator(s): PJ
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 105.3
Post-calibration Reading 100.1

Approved: PT
Date: 29/8/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609-02

Calibrated Equipment

Model: Minirae Lite

Serial No.: 595-002219

DP Reference: PID4

Other: 10.6eV Lamp

Calibration

Date(s): 30/8/23 Operator(s): ZW

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 102.1

Post-calibration Reading 100.0

Approved: ZW

Date: 30/8/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02

Calibrated Equipment

Model: Minirae lite
Serial No.: 595-002210
DP Reference: PID4
Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	101.0
Post-calibration Reading	100.2

Approved: ZW
Date: 31/8/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02

Calibrated Equipment

Model: miniRAE lite
Serial No.: 595-002219
DP Reference: PID4
Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	98.2
Post-calibration Reading	100.3

Approved: JW
Date: 1/9/2023

Douglas Partners
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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.02

Calibrated Equipment

Model: miniRAE Lite

Serial No.: 595-002210

DP Reference: PID 4

Other: 10.6eV Lamp

Calibration

Date(s): 4/9/23 Operator(s): ZW

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 97.3

Post-calibration Reading 99.0

Approved: ZW

Date: 4/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02

Calibrated Equipment

Model: MiniRae lite
Serial No.: 595-002219
DP Reference: PID4
Other: 10.6eV Lamp

Calibration

Date(s): 5/9/23 Operator(s): ZW
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 97.2
Post-calibration Reading 100.7

Approved: ZW
Date: 5/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell MiniRae Lite+
Serial No.: 590-913734
DP Reference: PID5
Other: 10.6eV Lamp

Calibration
Date(s): 5/9/23 Operator(s): PJ
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 101.2
Post-calibration Reading 100.0

Approved: PJ
Date: 5/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02/01

Calibrated Equipment: Minirae Lite
Model: 595-00219
Serial No.: ~~PID 4~~
DP Reference: PID 4
Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Gas Supplier	
Lot/Batch No:	
Pre-calibration Reading	98.4
Post-calibration Reading	100.1

Approved: DM
Date: 6/9/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.02

Calibrated Equipment

Model: Minirae lite

Serial No.: 595-002219

DP Reference: PID 4

Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Gas Supplier	
Lot/Batch No:	
Pre-calibration Reading	101.3
Post-calibration Reading	100.1

Approved: DIM

Date: 8/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02

Calibrated Equipment
Model: Minirae Lite
Serial No.: 595-002219
DP Reference: PID 4
Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Gas Supplier	
Lot/Batch No:	
Pre-calibration Reading	99.1
Post-calibration Reading	100.0

Approved: DIH
Date: 4/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.02

Calibrated Equipment
Model: mini rae lite
Serial No.: 595-00 2219
DP Reference: PID4
Other: 10.6eV Lamp

Calibration

Date(s):	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Gas Supplier	
Lot/Batch No:	
Pre-calibration Reading	98.9
Post-calibration Reading	100.1

Approved: DH
Date: 12/9/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 13/9/23 Operator(s):

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 98.2

Post-calibration Reading 100.1

Approved: PS

Date: 13/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell Miniae Lite +
Serial No.: 590-913734
DP Reference: PID5
Other: 10.6eV Lamp

Calibration

Date(s): 14/9/23	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	106.2
Post-calibration Reading	100.0

Approved: PS
Date: 14/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell MiniRae Lite+
Serial No.: 590-913734
DP Reference: PID5
Other: 10.6eV Lamp

Calibration
Date(s): 20/9/23 Operator(s): PJ
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 106.2
Post-calibration Reading 100.0

Approved: PJ
Date: 20/9/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell MiniRae Lite +
Serial No.: 590-913734
DP Reference: PID 5
Other: 10.6eV Lamp

Calibration
Date(s): 21/9/23 Operator(s): PT
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 98.7
Post-calibration Reading 100.1

Approved: PT
Date: 21/9/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 22/9/23 Operator(s): PS

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 101.2

Post-calibration Reading 100.0

Approved: PS

Date: 22/9/23

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CALIBRATION RECORD

Project: Bankmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell MiniRae Lite +

Serial No.: 5910 - 913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 26/9/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 103.0

Post-calibration Reading 100.0

Approved: PJ

Date: 26/9/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell Minirae Lite +

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 8/11/23 Operator(s):

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 100.8

Post-calibration Reading 100.1

Approved: PJ

Date: 8/11/23

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CALIBRATION RECORD

Project: Banksmeadow

Project Number: 219609.01

Calibrated Equipment

Model: Honeywell MiniRae Lite+

Serial No.: 590-913734

DP Reference: PID5

Other: 10.6eV Lamp

Calibration

Date(s): 9/11/23 Operator(s): PJ

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 104.7

Post-calibration Reading 100.0

Approved: PJ

Date: 9/11/23

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CALIBRATION RECORD

Project: Banksmeadow
Project Number: 219609.01

Calibrated Equipment
Model: Honeywell Minirae Lite+
Serial No.: 590-913734
DP Reference: P105
Other: 10.6eV Lamp

Calibration

Date(s): 10/11/23	Operator(s):
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	98.6
Post-calibration Reading	100.0

Approved: PS
Date: 10/11/23

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YSI CALIBRATION RECORD

Serial Number: YSI-21D221627

DP Identification No. DPE707

Project: Banksmeadow, Proposed Warehouse Development

Project Number: 219609.01

PARAMETER	STANDARD	PRE CALIBRATION READING		POST CALIBRATION READING	
Temperature	* 23.0		degrees C		degrees C
pH	10	9.96	pH units	10.00	pH units
	7	7.01	pH units	7.00	pH units
	4	4.00	pH units	4.00	pH units
Conductivity	0.0** uS/cm	-	µS/cm	-	µS/cm
2904	~~2.76~~ mS/cm	2896	~~µS~~ mS/cm	2904	mS/cm
Dissolved Oxygen	0.0% sat	-	ppm		
		0.02	%	0	%
	100.0**% sat	-	ppm		
		93	%	100	%
Turbidity	90*** NTU	90.4	NTU	90	NTU
	900 NTU	-	NTU	-	NTU
ORP #	~~240~~ mV 254	241.3	mV	254	mV

Calibrated by: Patrick Johansson

Date: 19/9/23

* use NATA certified reference thermometer from soils clean lab
** air
*** distilled water
# factory calibrated – do a bump test

NOTES:

Form Updated 1 March 2011

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WATER QUALITY METER CALIBRATION RECORD

Model: YSI-2102216627

Serial Number:

DP Identification No.: DPE 707

Project Number: 219609-01

Project Location: Banksmeadow

PARAMETER	STANDARD	SUPPLIER	LOT / BATCH	PRE-CAL READING		POST-CAL READING	
Temperature	* 23.0				degrees C		degrees C
pH	10			10.07	pH units	10.00	pH units
	7			7.64	pH units	7.00	pH units
	4			3.89	pH units	4.01	pH units
Conductivity 2904	0.0** uS/cm	–		–	µS/cm	–	µS/cm
	~~2.76~~ mS/cm			2896	mS/cm	2906	mS/cm
	12.88 mS/cm				mS/cm		mS/cm
TDS	0.0** ppm			–	ppm	–	ppm
	36.0 ppk			–	ppk	–	ppk
Dissolved Oxygen	0.0% sat			–	ppm		
				0.01	%	0	%
	100.0**% sat			–	ppm		
				93	%	100	%
Turbidity	0*** NTU			–	NTU	–	NTU
	90 NTU			90.9	NTU	90.1	NTU
ORP #	~~154~~ ~~240~~ mV			250.3	mV	-	mV

Calibrated by: Patrick Johansson

Date: 7/11/23

* use NATA certified reference thermometer from soils clean lab
** air
*** distilled water
# factory calibrated – bump test only

NOTES:

Form Updated 1 September 2017

Appendix J

Summary Laboratory Results Tables

Table J1: Summary of Soil Laboratory Results

				TRH											TPH						BTEX											MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000						81,000								
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL						NL								
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																														
VMP, Allnex (2020)																									1000		1000		1000		1000									
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																	1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																					
201	**1.9 - 2**	**Fill**	**06 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
201	**12 - 12.3**	**Natural**	**06 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**0.15 - 0.25**	**Fill**	**01 Sep 2023**	<25	<50	<50	**520**	**700**	<25	<25	<50	**170**	**570**	**740**	**1,200**	<50	<100	**120**	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230901^	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**0.8 - 1**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230901^	**0.8 - 1**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230901^	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**5.5 - 5.95**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**7.5 - 7.95**	**Natural**	**01 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**10.5 - 10.95**	**Natural**	**01 Sep 2023**	-	<50	<50	<100	<100	-	-	<50	<100	<100	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**18 - 18.45**	**Natural**	**01 Sep 2023**	<25	<50	<50	**280**	**100**	<25	<25	<50	<100	**270**	**270**	**380**	<50	**230**	<100	<50	**130**	**130**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
202	**19.5 - 19.95**	**Natural**	**01 Sep 2023**	-	<50	<50	<100	<100	-	-	<50	<100	<100	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**0.25 - 0.35**	**Fill**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
203	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230905*	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
203	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230905*	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
203	**2 - 2.2**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230905*	**2 - 2.2**	**Natural**	**05 Sep 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
203	**4 - 4.45**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
203	**5 - 5.2**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD4/20230905^	**5 - 5.2**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
203	**5.5 - 5.95**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
203	**8 - 8.35**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
203	**14 - 14.45**	**Natural**	**05 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
203	**17 - 17.45**	**Natural**	**05 Sep 2023**	<25	<50	<50	**530**	**190**	<25	<25	<50	**120**	**530**	**660**	**720**	**72**	**480**	<100	**55**	**210**	**340**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
203	**18.5 - 18.8**	**Natural**	**05 Sep 2023**	-	<50	<50	<100	<100	-	-	<50	<100	<100	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**0.5 - 0.7**	**Fill**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230904^	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**2 - 2.2**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230904^	**2 - 2.2**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230904^	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**5 - 5.2**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD4/20230904^	**5 - 5.2**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**8 - 8.38**	**Natural**	**04 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**17 - 17.45**	**Natural**	**04 Sep 2023**	<25	<150	<150	**960**	**490**	<25	<25	<150	<300	**940**	**940**	**1,400**	<150	**590**	<300	<150	<300	**450**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD5/20230904^	**17 - 17.45**	**Natural**	**04 Sep 2023**	<25	<150	<150	**360**	<300	<25	<25	<150	<300	**360**	**360**	**360**	<50	**200**	<100	<50	<100	**150**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
204	**20 - 20.4**	**Natural**	**04 Sep 2023**	-	<50	<50	<100	<100	-	-	<50	<100	<100	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**9 - 9.3**	**Natural**	**07 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
205	**10 - 10.45**	**Natural**	**07 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
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205	**17 - 17.45**	**Natural**	**07 Sep 2023**	<25	<50	<50	**980**	**570**	<25	<25	<50	**330**	**960**	**1,300**	**1,600**	<50	**300**	<100	<50	**100**	**270**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**0.15 - 0.25**	**Fill**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230908^	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230908^	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**2 - 2.2**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230908^	**2 - 2.2**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**5 - 5.2**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD4/20230908^	**5 - 5.2**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**5.5 - 5.95**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**9.5 - 9.8**	**Natural**	**08 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
206	**16.5 - 16.95**	**Natural**	**08 Sep 2023**	<25	<50	<50	**810**	**410**	<25	<25	<50	**220**	**810**	**1,000**	**1,200**	<50	**230**	<100	<50	<100	**200**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
207	**14 - 14.45**	**Natural**	**31 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
207	**15 - 15.45**	**Natural**	**31 Aug 2023**	<25	<100	<100	**630**	**280**	<25	<25	<100	<200	**680**	**680**	**900**	<100	**360**	<100	<100	<200	**280**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
207	**20 - 20.38**	**Natural**	**31 Aug 2023**	-	<50	<50	<100	<100	-	-	<50	<100	<100	<50	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**0.2 - 0.4**	**Fill**	**30 Aug 2023**	<25	<50	<50	**190**	**110**	<25	<25	<50	<100	**140**	**140**	**300**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**1 - 1.45**	**Fill**	**30 Aug 2023**	<25	<50	<50	**250**	<100	<25	<25	<50	**120**	**180**	**300**	**250**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208/PACM3	**1.45**	**Material**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**1.5 - 1.7**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230830^	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**5.5 - 5.95**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**7.5 - 7.95**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**8.5 - 8.95**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**13.5 - 13.95**	**Natural**	**30 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
208	**15.5 - 15.95**	**Natural**	**30 Aug 2023**	<25	<150	<150	<300	<300	<25	<25	<150	<300	<300	<150	<150	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
209	**0.5 - 0.7**	**Fill**	**11 Sep 2023**	**170**	**190**	**190**	**1,500**	**220**	**140**	**180**	**180**	**1,200**	**420**	**1,800**	**1,900**	**67**	**300**	<100	**77**	**210**	**120**	<0.2	-	**2**	-	**6**	-	**3**	-	**2**	-	**5**	-	-	-	-	-	-	-	-
209	**1 - 1.45**	**Fill**	**11 Sep 2023**	**28**	**110**	**110**	**630**	**160**	<25	**29**	**97**	**480**	**220**	**800**	**900**	<50	**250**	<100	<50	**180**	<100	<0.2	-	**0.6**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
209/PACM4	**2**	**Material**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**2 - 2.2**	**Fill**	**11 Sep 2023**	**27**	**190**	**180**	**810**	**180**	<25	**28**	**170**	**630**	**290**	**1,100**	**1,200**	-	-	-	-	-	-	<0.2	-	**0.6**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
209	**2.5 - 2.9**	**Fill**	**11 Sep 2023**	**220**	**830**	**830**	**2,300**	**490**	**120**	**300**	**870**	**1,800**	**920**	**3,600**	**3,600**	**260**	**500**	**170**	**320**	**340**	**270**	<0.2	<1	**3**	**5**	**62**	**16**	**15**	**34**	**4**	**18**	**19**	-	-	-	-	-	-	-	-
209	**3.5 - 3.7**	**Fill**	**11 Sep 2023**	**58**	**630**	**630**	**2,200**	**380**	**50**	**89**	**620**	**1,600**	**910**	**3,100**	**3,200**	**180**	**380**	<100	**180**	**330**	<100	<0.2	<1	**5**	**11**	**14**	**58**	**9**	**70**	**4**	**32**	**13**	-	-	-	-	-	-	-	-
209	**4 - 4.45**	**Fill**	**11 Sep 2023**	**780**	**1,800**	**1,700**	**4,200**	**280**	**1,100**	**1,500**	**2,400**	**3,900**	**470**	**6,800**	**6,200**	**840**	**2,100**	**120**	**1,100**	**2,000**	**270**	<0.2	<10	**53**	**220**	**480**	**1,500**	**160**	**320**	**27**	**130**	**190**	-	-	-	-	-	-	-	-
209	**5 - 5.2**	**Fill**	**11 Sep 2023**	**380**	**850**	**820**	**2,200**	**200**	**300**	**520**	**1,100**	**2,000**	**350**	**3,400**	**3,200**	**480**	**1,300**	<100	**570**	**1,300**	**200**	<0.2	<1	**10**	**5**	**92**	**24**	**30**	**6**	**6**	**15**	**36**	**27**	**5**	**41**	**5**	**42**	**3**	**3**	<1	<1
209	**5.5 - 5.95**	**Fill**	**11 Sep 2023**	**310**	**580**	**570**	**1,600**	**140**	**130**	**350**	**710**	**1,500**	**270**	**2,500**	**2,300**	**320**	**1,000**	<100	**400**	**940**	**130**	<0.2	<1	**2**	**4**	**26**	**12**	**8**	**4**	**2**	**4**	**10**	-	-	-	-	-	-	-	-
209	**6.5 - 6.95**	**Natural**	**11 Sep 2023**	**110**	**66**	**66**	**180**	<100	**69**	**110**	**93**	**180**	<100	**270**	**240**	**110**	**260**	<100	**170**	**260**	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	**2**	**1**	**2**	<1	**1**	<1	<1
209	**8 - 8.3**	**Natural**	**11 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
209	**9 - 9.45**	**Natural**	**11 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
209	**11 - 11.3**	**Natural**	**11 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
209	**15 - 15.2**	**Natural**	**11 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
210	**0.5 - 0.7**	**Fill**	**12 Sep 2023**	<25	**100**	**100**	**750**	**180**	<25	<25	**88**	**530**	**330**	**940**	**1,000**	<50	<100	<100	<50	<100	<100	<0.2	-	**2**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
210	**2 - 2.2**	**Fill**	**12 Sep 2023**	<25	**160**	**160**	**730**	**190**	<25	<25	**120**	**640**	**240**	**1,000**	**1,100**	<50	<100	<100	<50	<100	<100	<0.2	-	**3**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
210	**3.5 - 3.7**	**Fill**	**12 Sep 2023**	<25	**190**	**190**	**760**	**220**	<25	<25	**190**	**610**	**290**	**1,100**	**1,200**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
210	**4 - 4.2**	**Fill**	**12 Sep 2023**	<25	**180**	**160**	**960**	**250**	<25	<25	**140**	**670**	**430**	**1,200**	**1,400**	**72**	**320**	<100	**62**	**250**	**100**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				TRH												TPH						BTEX												MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000						81,000									
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL						NL									
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																																
VMP, Allnex (2020)																									1000		1000		1000		1000											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																	1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																							
BD4/20230912^	**4 - 4.2**	**Fill**	**12 Sep 2023**	<25	**230**	**210**	**990**	**180**	<25	<25	**200**	**750**	**390**	**1,300**	**1,400**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
210	**5.5 - 5.8**	**Fill**	**12 Sep 2023**	<25	**80**	**76**	**840**	**300**	<25	<25	**53**	**570**	**400**	**1,000**	**1,200**	**66**	**420**	<100	**52**	**330**	**140**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
210	**5.8 - 5.95**	**Natural**	**12 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
210	**7 - 7.45**	**Natural**	**12 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
210	**8.5 - 8.95**	**Natural**	**12 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
210	**13.5 - 13.6**	**Natural**	**12 Sep 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
301	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
301	**1 - 1.2**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**2**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**0.8 - 1**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**2.3 - 2.5**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**2.8 - 3**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**4.8 - 5**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
302	**6.8 - 7**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
302	**9.8 - 10**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
302	**11.5 - 11.6**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
303	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
303	**1.2 - 1.4**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
303	**1.7 - 1.9**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
303	**2.1 - 2.3**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
303	**2.6 - 2.8**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
303	**3 - 3.2**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
303	**4.8 - 5**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230817*	**4.8 - 6**	**Natural**	**17 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
304	**0.2 - 0.3**	**Fill**	**17 Aug 2023**	<25	**87**	**87**	<100	<100	<25	<25	**140**	<100	<100	**140**	**90**	-	-	-	-	-	-	<0.2	<1	**2**	**5**	**1**	**2**	**2**	**3**	<1	<1	**2**	-	-	-	-	-	-	-	-	-	-
304	**0.3 - 0.5**	**Fill**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
304	**1.7 - 1.9**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
304	**2.8 - 3**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
304	**3.8 - 4**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
304	**4.3 - 4.5**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
304	**4.8 - 5**	**Natural**	**17 Aug 2023**	**910**	**1,300**	**1,300**	**100**	<100	**160**	**1,000**	**2,200**	<100	<100	**2,200**	**1,300**	**810**	<100	<100	**1,200**	<100	<100	<0.2	<1	<0.5	**1**	**13**	**50**	**60**	**260**	**13**	**76**	**73**	**52**	**33**	**2**	<1	**4**	**6**	<1	<1	<1	<1
BD3/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
304	**5.3 - 5.5**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
304	**5.8 - 6**	**Natural**	**17 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
305	**0.2 - 0.3**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
305	**1 - 1.2**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
305	**2 - 2.2**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
305	**3.8 - 4**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
305	**4.8 - 5**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230822*	**4.8 - 5**	**Natural**	**22 Aug 2023**	**116**	**150**	**150**	<100	<100	**27**	**116**	**220**	<100	<100	**220**	**150**	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	-	-
305	**5.8 - 6**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
306	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
306	**0.8 - 1**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
306	**1.2 - 1.4**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
306	**3.8 - 4**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
307	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	**2**	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-
307	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
307	**1.9 - 2.1**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
307	**4.8 - 5**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
307	**5.8 - 6**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**0.7**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
307	**6.8 - 7**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230825^	**6.8 - 7**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**1 - 1.2**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**1.7 - 1.9**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**4.8 - 5**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**5.8 - 6**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**6.8 - 7**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
308	**9.8 - 10**	**Natural**	**22 Aug 2023**	**31**	<50	<50	<100	<100	<25	**31**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
308	**10.8 - 11**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
309	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**0.7**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
309	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
309	**0.9 - 1.1**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
309	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
309	**1.8 - 2**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
309	**2.8 - 3**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
309	**4.8 - 5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
309	**5.8 - 6**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
309	**7.8 - 8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
310	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
310	**0.8 - 1**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
310	**1.6 - 1.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
310	**3.6 - 3.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
310	**4.6 - 4.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
310	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BD3/20230816^	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
310	**6.6 - 6.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
310	**7.6 - 7.8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**0.2 - 0.3**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**2 - 2.2**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**3.4 - 3.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**4.4 - 4.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**5.4 - 5.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
311	**6.4 - 6.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**7.4 - 7.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
311	**8.4 - 8.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**0.15 - 0.25**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312/PACM3	**0.2**	**Material**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				TRH												TPH						BTEX												MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000					81,000											
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL					NL										
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																																
VMP, Allnex (2020)																									1000		1000		1000		1000											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																	1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																							
312	**0.4 - 0.6**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**1.5 - 1.7**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**1.8 - 2**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**3.8 - 4**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**4.8 - 5**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
BD1/20230823^	**4.8 - 5**	**Natural**	**23 Aug 2023**	<25	<50	<50	**210**	<100	<25	<25	<50	**200**	<100	**200**	**210**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
312	**5.8 - 6**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
312	**6.8 - 7**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
312	**10.8 - 11**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
313	**0.4 - 0.5**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
313	**0.8 - 1**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
313	**1.4 - 1.6**	**Fill**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
313	**2.8 - 3**	**Natural**	**23 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
313	**3.8 - 4**	**Natural**	**23 Aug 2023**	**180**	**720**	**710**	**190**	<100	**78**	**230**	**880**	**220**	<100	**1,100**	**910**	**490**	<100	<100	**550**	<100	<100	<0.2	<1	<0.5	<1	<1	**14**	**27**	-	**20**	**44**	**46**	-	-	-	-	-	-	-	-	-	-
313	**4.3 - 4.5**	**Natural**	**23 Aug 2023**	**590**	**740**	**730**	**100**	<100	**360**	**850**	**1,300**	**110**	<100	**1,400**	**840**	**390**	<100	<100	**690**	<100	<100	<0.2	-	**3**	-	**10**		**160**	-	**81**		**240**	**170**	**53**	**4**	**15**	**12**	**3**	**3**	<1	<1
313	**4.8 - 5**	**Natural**	**23 Aug 2023**	**790**	**890**	**880**	**210**	<100	**690**	**1,200**	**1,700**	**220**	<100	**2,000**	**1,100**	-	-	-	-	-	-	<0.2	<10	**11**	**110**	**38**	**730**	**250**	-	**110**	**2,300**	**360**	**190**	**57**	**7**	**17**	**24**	**3**	**4**	**3**	**20**
313	**5.3 - 5.5**	**Natural**	**23 Aug 2023**	**140**	**220**	**220**	<100	<100	**180**	**300**	**360**	<100	<100	**360**	**220**	**130**	<100	<100	**210**	<100	<100	<0.2	-	**2**	-	**23**	-	**95**	-	**41**		**140**	**51**	**18**	**3**	**6**	**9**	<1	**1**	**1**	**9**
313	**5.8 - 6**	**Natural**	**23 Aug 2023**	**460**	**390**	**390**	<100	<100	**440**	**700**	**770**	<100	<100	**770**	**390**	**300**	<100	<100	**580**	<100	<100	<0.2	<10	**2**	**73**	**31**	**1,000**	**150**	-	**60**	**1,800**	**210**	**68**	**23**	**5**	**7**	**13**	**1**	**2**	**2**	**10**
313	**6.3 - 6.5**	**Natural**	**23 Aug 2023**	**870**	**460**	**450**	<100	<100	**890**	**1,500**	**890**	<100	<100	**890**	**460**	-	-	-	-	-	-	<0.2	<10	**8**	**31**	**77**	**230**	**380**	-	**160**	**1,100**	**550**	**190**	**57**	**10**	**17**	**29**	**3**	**4**	**4**	**20**
313	**6.8 - 7**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	-	**380**	-	**810**	-	-	-	**460**	-	-	-	-	-	-	-	-	-	-
313	**7.8 - 8**	**Natural**	**23 Aug 2023**	**61**	<50	<50	<100	<100	**48**	**87**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	<1	**2**	**5**	**6**	**53**	**13**	-	**5**	**46**	**18**	**9**	**3**	<1	<1	**1**	<1	<1	<1	**1**
313	**8.8 - 9**	**Natural**	**23 Aug 2023**	**160**	**100**	**98**	<100	<100	**120**	**230**	**180**	<100	<100	**180**	**100**	-	-	-	-	-	-	<0.2	<1	**4**	**21**	**14**	**89**	**33**	-	**14**	**150**	**47**	**28**	**9**	**1**	**3**	**3**	<1	<1	<1	<1
314	**0.15 - 0.25**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
314	**0.6 - 0.8**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
314	**1.7 - 1.9**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
314	**2 - 2.2**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
314	**4.8 - 5**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
314	**5.3 - 5.5**	**Natural**	**22 Aug 2023**	**110**	**380**	**350**	**500**	<100	<25	**120**	**460**	**500**	<100	**960**	**880**	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	**6**	-	**3**	-	**9**	**23**	**10**	<1	<1	**2**	**3**	**3**	<1	**4**
314	**5.8 - 6**	**Natural**	**22 Aug 2023**	**270**	**950**	**820**	**690**	<100	<25	**270**	**1,400**	**690**	<100	**2,100**	**1,600**	**480**	<100	<100	**740**	<100	<100	<0.2	-	<0.5	-	<1		<2	-	<1	-	<1	**80**	**38**	**1**	<1	**5**	**7**	**7**	<1	**11**
314	**6.3 - 6.5**	**Natural**	**22 Aug 2023**	**290**	**800**	**720**	**280**	<100	**150**	**370**	**1,300**	**290**	<100	**1,600**	**1,100**	**190**	<100	<100	**350**	<100	<100	<0.2	<1	<0.5	**2**	**39**	**250**	**30**	**180**	**16**	**100**	**46**	**73**	**26**	**2**	**10**	**13**	**2**	**3**	**11**	**13**
314	**6.8 - 7**	**Natural**	**22 Aug 2023**	**99**	**240**	**210**	**100**	<100	**44**	**130**	**380**	**110**	<100	**490**	**350**	-	-	-	-	-	-	<0.2	-	<0.5	-	**13**	-	**10**	-	**5**	-	**15**	-	-	-	-	-	-	-	-	-	-
314	**7.3 - 7.5**	**Natural**	**22 Aug 2023**	**140**	**390**	**340**	**180**	<100	**66**	**180**	**620**	**180**	<100	**800**	**580**	**260**	**110**	<100	**390**	**110**	<100	<0.2	-	<0.5	-	**20**	-	**15**	-	**8**	-	**22**	**42**	**15**	**1**	**6**	**7**	**5**	**7**	**5**	<1
314	**7.8 - 8**	**Natural**	**22 Aug 2023**	**250**	**270**	**230**	**150**	<100	**68**	**280**	**410**	**140**	<100	**560**	**420**	**160**	<100	<100	**230**	<100	<100	<0.2	<1	<0.5	**1**	**14**	**83**	**11**	**70**	**6**	**37**	**16**	**38**	**14**	**1**	**4**	**7**	**2**	**2**	**3**	<1
315	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
315	**0.8 - 1**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
315	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
315	**2.8 - 3**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230811^	**2.8 - 3**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
315	**3.8 - 4**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
315	**4.8 - 5**	**Natural**	**11 Aug 2023**	<25	**180**	**180**	**140**	<100	<25	<25	**150**	**180**	<100	**330**	**320**	**110**	<100	<100	**86**	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	**1**	<1	**1**	<1	<1	<1	<1	<1	<1
315	**5.3 - 5.5**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
315	**5.8 - 6**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
315	**6.3 - 6.5**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
315	**6.8 - 7**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
315	**7.8 - 8**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
316	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
316	**0.5 - 0.7**	**Fill**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
316	**1.4 - 1.6**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
316	**3.8 - 4**	**Natural**	**22 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
316	**4.8 - 5**	**Natural**	**22 Aug 2023**	**980**	**3,500**	**3,500**	**19,000**	**150**	**440**	**1,100**	**5,500**	**19,000**	**400**	**25,000**	**23,000**	**2,800**	<1,000	<1,000	**4,600**	<1,000	<1,000	<0.2	<1	**1**	**10**	**5**	**40**	**37**	**270**	**33**	**270**	**71**	**120**	**69**	**5**	**18**	**12**	**6**	**11**	<1	**13**
BD2/20230822^	**4.8 - 5**	**Natural**	**22 Aug 2023**	**920**	**2,600**	**2,600**	**20,000**	<100	**370**	**1,000**	**4,400**	**20,000**	**240**	**24,000**	**22,000**	**1,800**	<1,000	<1,000	**3,000**	<1,000	<1,000	<0.2	-	**1**	-	**6**	-	**46**	-	**35**	-	**81**	**100**	**57**	**6**	**17**	**14**	**7**	<1	<1	<1
316	**5.8 - 6**	**Natural**	**22 Aug 2023**	<25	**69**	**69**	**160**	<100	<25	<25	**99**	**140**	<100	**230**	**230**	<50	<100	<100	**50**	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
316	**6.8 - 7**	**Natural**	**22 Aug 2023**	**28**	<50	<50	**270**	<100	<25	**28**	<50	**240**	<100	**240**	**270**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
316	**9.8 - 10**	**Natural**	**22 Aug 2023**	<25	<50	<50	**160**	<100	<25	<25	<50	**130**	<100	**130**	**160**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**0.2 - 0.3**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**1 - 1.2**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**1.7 - 1.9**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**3.8 - 4**	**Natural**	**21 Aug 2023**	<25	**60**	**60**	**300**	<100	<25	<25	<50	**280**	<100	**280**	**360**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**4.8 - 5**	**Natural**	**21 Aug 2023**	<25	**200**	**200**	**25,000**	**670**	<25	<25	**210**	**24,000**	**360**	**25,000**	**26,000**	<50	**2,100**	<100	<50	**2,000**	**120**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
317	**5.8 - 6**	**Natural**	**21 Aug 2023**	<25	**60**	**60**	**7,400**	**240**	<25	<25	**63**	**7,100**	**240**	**7,400**	**7,700**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**6.8 - 7**	**Natural**	**21 Aug 2023**	<25	<50	<50	**2,300**	<100	<25	<25	<50	**2,100**	<100	**2,100**	**2,300**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
317	**7.8 - 8**	**Natural**	**21 Aug 2023**	<25	<50	<50	**2,200**	<100	<25	<25	<50	<100	**110**	**110**	**2,200**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**8.8 - 9**	**Natural**	**21 Aug 2023**	<25	<50	<50	**2,000**	**450**	<25	<25	<50	**1,800**	**340**	**2,100**	**2,400**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
317	**9.8 - 10**	**Natural**	**21 Aug 2023**	<25	**58**	**58**	**4,700**	**460**	<25	<25	**56**	**4,500**	**350**	**4,900**	**5,200**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**1 - 1.2**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**1.5 - 1.7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**2.5 - 2.7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**3.5 - 3.7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**4.5 - 4.7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
318	**4.8 - 5**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
318	**5.8 - 6**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
318	**6.8 - 7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
319	**0.25 - 0.35**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**0.6**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**1.1 - 1.3**	**Fill**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**1.4 - 1.6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**2.8 - 3**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**3.8 - 4**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230810^	**3.8 - 4**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**4.8 - 5**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**5.8 - 6**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
319	**6.8 - 7**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
319	**7.8 - 8**	**Natural**	**10 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
320	**0.1 - 0.3**	**Fill**	**18 Aug 2023**	<25	**140**	**140**	**1,400**	**430**	<25	<25	**120**	**850**	**730**	**1,700**	**1,900**	<50	**770**	**190**	<50	**460**	**400**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
320	**0.4 - 0.6**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
320A	**0.15 - 0.25**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
320A	**0.5 - 0.6**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-
320B	**0.2 -

Table J1: Summary of Soil Laboratory Results

				TRH											TPH						BTEX											MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000					81,000									
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL					NL								
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																														
VMP, Allnex (2020)																									1000		1000		1000		1000									
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																	1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																					
320B	**0.8 - 1**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320C	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320C	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320C	**1.8 - 2**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
320D	**0 - 0.1**	**Fill**	**18 Aug 2023**	<25	**89**	**89**	**2,300**	**880**	<25	<25	**75**	**1,200**	**1,500**	**2,800**	**3,300**	<50	**430**	**220**	<50	**200**	**320**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320D	**0.3 - 0.4**	**Fill**	**18 Aug 2023**	<25	<50	<50	**640**	**240**	<25	<25	<50	**340**	**400**	**740**	**880**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320D	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
320D	**1.8 - 2**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
321	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<25	<50	<50	**150**	<100	<25	<25	<50	<100	<100	<50	**150**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
321	**1 - 1.2**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	**3**	-	**1**	-	**4**	-	-	-	-	-	-	-	-
321	**2 - 2.2**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	**2**	-	<1	-	**2**	-	-	-	-	-	-	-	-
321	**4 - 4.2**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
321	**5 - 5.2**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
321	**6 - 6.2**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
321	**7 - 7.2**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
322	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
322	**1.8 - 2**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322	**3 - 3.2**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322A	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	**140**	<100	<25	<25	<50	<100	<100	<50	**140**	-	-	-	-	-	-	<0.2	-	**1**	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
322A	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
322A	**1 - 1.2**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322A	**1.8 - 2**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322A	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322A	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322A	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230816^	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322B	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**2**	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
322B	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322B	**1.5 - 1.7**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322B	**2 - 2.2**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322B	**3 - 3.2**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**0.6**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**1.5 - 1.7**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230816^	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**4.8 - 5**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**5.8 - 6**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322C	**7.8 - 8**	**Natural**	**16 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322D	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322D	**0.7 - 0.9**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322D	**1.7 - 1.9**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322D	**2.2 - 2.4**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
322D	**2.6 - 2.8**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
323	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	<25	**85**	**85**	**120**	<100	<25	**33**	**110**	**120**	<100	**220**	**210**	-	-	-	-	-	-	<0.2	-	**2**	-	**1**	-	**8**	-	**2**	-	**10**	-	-	-	-	-	-	-	-
323	**0.7 - 0.9**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**2.1 - 2.3**	**Fill**	**24 Aug 2023**	<25	**80**	**80**	<100	<100	<25	<25	**90**	<100	<100	**90**	**80**	-	-	-	-	-	-	<0.2	-	**0.7**	-	<1	-	<2	-	<1	-	<1	**1**	<1	<1	<1	<1	<1	<1	<1
323	**2.5 - 2.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
323	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
323	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD4/20230824*	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
324	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
324	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
324	**1.8 - 2**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230821*	**1.8 - 2**	**Natural**	**21 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
325	**0.2 - 0.4**	**Fill**	**21 Aug 2023**	<25	<50	<50	**190**	<100	<25	<25	<50	**150**	<100	**150**	**190**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
325	**0.8 - 1**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
325	**3.8 - 4**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
325	**4.8 - 5**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230821^	**4.8 - 5**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
325	**6.8 - 7**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
326	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<25	<50	<50	**170**	<100	<25	<25	<50	**160**	<100	**160**	**170**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
326	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<25	<50	<50	**240**	<100	<25	<25	<50	**230**	<100	**230**	**240**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
326	**1 - 1.2**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
326	**3.3 - 3.5**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
326	**3.8 - 4**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
326	**4.3 - 4.5**	**Natural**	**21 Aug 2023**	**720**	**830**	**820**	<100	<100	**370**	**980**	**2,200**	<100	**2,400**	**830**	**460**	<100	<100	**940**	<100	<100	<0.2	<1	**18**	**13**	**28**	**66**	**140**	**470**	**71**	**350**	**210**	**520**	**170**	**16**	**14**	**44**	**5**	**5**	<1	**79**
326	**4.8 - 5**	**Natural**	**21 Aug 2023**	**830**	**1,300**	**1,300**	**140**	<100	**480**	**1,200**	**4,400**	**170**	<100	**4,600**	**1,400**	-	-	-	-	-	-	<0.2	<10	**41**	**40**	**41**	**390**	**150**	**2,200**	**98**	**1,600**	**240**	**790**	**210**	**23**	**13**	**61**	**5**	**5**	<1	**96**
326	**5.3 - 5.5**	**Natural**	**21 Aug 2023**	**4,900**	**1,600**	**1,600**	**190**	<100	**2,300**	**6,300**	**6,600**	**250**	<100	**6,900**	**1,800**	**970**	<100	<100	**3,800**	<100	<100	**2**	<10	**230**	**860**	**150**	**1,200**	**670**	**5,800**	**380**	**3,900**	**1,000**	**2,200**	**620**	**71**	**27**	**200**	**11**	**11**	**7**	**210**
326	**5.8 - 6**	**Natural**	**21 Aug 2023**	**520**	**240**	**240**	<100	<100	**430**	**940**	**770**	<100	<100	**770**	**240**	**88**	<100	<100	**160**	<100	<100	**0.3**	-	**57**	-	**46**	-	**210**	-	**110**	-	**320**	**420**	**130**	**14**	**7**	**40**	**3**	**3**	<1	**27**
326	**6.3 - 6.5**	**Natural**	**21 Aug 2023**	**420**	**200**	**200**	<100	<100	**280**	**590**	**630**	<100	<100	**630**	**200**	-	-	-	-	-	-	**0.4**	-	**56**	-	**20**	-	**67**	-	**34**	-	**100**	**160**	**47**	**7**	**3**	**17**	**1**	**1**	<1	**17**
326	**6.8 - 7**	**Natural**	**21 Aug 2023**	**260**	**88**	**87**	<100	<100	**170**	**350**	**250**	<100	<100	**250**	**90**	<50	<100	<100	**130**	<100	<100	<0.2	-	**28**	-	**11**	-	**34**	-	**18**	-	**52**	**98**	**27**	**4**	**2**	**9**	<1	<1	<1	**11**
326	**7.3 - 7.5**	**Natural**	**21 Aug 2023**	**320**	**130**	**120**	<100	<100	**200**	**430**	**370**	<100	<100	**370**	**130**	-	-	-	-	-	-	**0.2**	-	**32**	-	**13**	-	**42**	-	**22**	-	**64**	**130**	**34**	**5**	**2**	**12**	<1	**1**	<1	**13**
326	**7.8 - 8**	**Natural**	**21 Aug 2023**	**37**	<50	<50	<100	<100	**25**	**52**	**81**	<100	<100	**80**	<50	-	-	-	-	-	-	<0.2	<1	**5**	**52**	**2**	**40**	**5**	**270**	**3**	**160**	**8**	-	-	-	-	-	-	-	-
326	**8.3 - 8.5**	**Natural**	**21 Aug 2023**	**43**	**77**	**77**	<100	<100	<25	**47**	**160**	<100	<100	**160**	**80**	**54**	<100	<100	**97**	<100	<100	<0.2	<1	**10**	**2**	**47**	**1**	**35**	**4**	-	-	-	-	-	-	-	-	-	-	-
326	**8.8 - 9**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	**86**	<100	<100	**90**	<50	-	-	-	-	-	-	<0.2	<1	<0.5	**44**	<1	**64**	<2	**270**	**1**	**160**	**1**	-	-	-	-	-	-	-	-
327	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
327	**0.5 - 0.7**	**Fill**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
327	**1.8 - 2**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
327	**4.8 - 5**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
327	**5.8 - 6**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230818*	**5.8 - 6**	**Natural**	**18 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
327	**6.8 - 7**	**Natural**	**18 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table J1: Summary of Soil Laboratory Results

				TRH											TPH						BTEX											MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000						81,000								
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL						NL								
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																														
VMP, Allnex (2020)																									1000		1000		1000		1000									
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																	1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																					
328	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<25	**77**	**77**	**220**	<100	<25	<25	**80**	**170**	**110**	**360**	**300**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328	**0.4 - 0.6**	**Fill**	**21 Aug 2023**	<25	<50	<50	**150**	<100	<25	<25	<50	**110**	<100	**110**	**150**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328	**0.8 - 1**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328	**1.3 - 1.5**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328	**2.8 - 3**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<25	**88**	**88**	**270**	<100	<25	<25	**96**	**190**	**120**	**410**	**360**	<50	<100	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<50	<100	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**1.5 - 1.7**	**Fill**	**21 Aug 2023**	<25	**60**	**60**	<100	<100	<25	<25	**61**	<100	<100	**60**	**60**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**2.4 - 2.6**	**Fill**	**21 Aug 2023**	<25	**320**	**320**	**210**	<100	<25	<25	**320**	**160**	**100**	**590**	**530**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**3.3 - 3.5**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
328A	**3.8 - 4**	**Fill**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328A	**4.1 - 4.3**	**Natural**	**21 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<25	**72**	**72**	**300**	<100	<25	<25	**74**	**210**	**140**	**420**	**370**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**2.7 - 2.9**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**3.1 - 3.3**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**3.5 - 3.6**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**4.8 - 5**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328B	**7.8 - 8**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
328C	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<25	**100**	**100**	**370**	<100	<25	<25	**110**	**280**	**150**	**540**	**470**	<50	**100**	<100	<50	<100	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328C	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328C	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328C	**2.6 - 2.8**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	**4**	-	<1	-	**4**	-	-	-	-	-	-	-	-
328C	**3.2 - 3.4**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328C	**4.8 - 5**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328C	**6.8 - 7**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
328C	**7.8 - 8**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
328D	**0.25 - 0.35**	**Fill**	**11 Aug 2023**	<25	**100**	**100**	**2,200**	**320**	<25	<25	**89**	**1,300**	**1,000**	**2,400**	**2,600**	<50	**380**	<100	<50	**270**	**130**	<0.2	-	**1**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328D	**0.5 - 0.7**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**1**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328D	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328D	**2.4 - 2.6**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
328D	**3 - 3.2**	**Natural**	**11 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**0 - 0.1**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329/PACM1	**Surface**	**Material**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<25	<50	<50	**370**	**110**	<25	<25	<50	**260**	**180**	**440**	**480**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<25	<50	<50	**550**	<100	<25	<25	<50	**400**	**200**	**600**	**550**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**1 - 1.2**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	**36**	<50	<50	<100	<100	**26**	**39**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**3**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**2.3 - 2.5**	**Fill**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**3**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**2.8 - 3**	**Fill**	**14 Aug 2023**	**160**	**140**	**140**	**250**	<100	<25	**160**	**220**	**210**	<100	**430**	**390**	-	-	-	-	-	-	<0.2	-	<0.5	-	**1**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**3.8 - 4**	**Natural**	**14 Aug 2023**	**130**	<50	<50	**120**	<100	**65**	**150**	**71**	<100	<100	**70**	**120**	-	-	-	-	-	-	<0.2	-	<0.5	-	**17**	-	**4**	-	<1	-	**4**	-	-	-	-	-	-	-	-
329	**4.1 - 4.3**	**Natural**	**14 Aug 2023**	**29**	**57**	**57**	<100	<100	<25	**29**	**67**	<100	<100	**70**	**60**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**4.6 - 4.8**	**Natural**	**14 Aug 2023**	**290**	**280**	**280**	<100	<100	**28**	**290**	**360**	<100	<100	**360**	**280**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	**4**	**2**	**6**	<1	**4**	<1	<1
329	**5 - 5.2**	**Natural**	**14 Aug 2023**	**3,500**	**3,000**	**3,000**	<100	<100	**2,200**	**4,300**	**5,300**	<100	<100	**5,300**	**3,000**	**1,400**	<100	<100	**4,900**	<100	<100	<0.2	<50	<0.5	<50	**590**	**2,800**	**250**	**1,200**	<1	<50	**250**	**290**	**95**	**95**	**40**	**130**	**18**	**47**	<1	<1
329	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	**460**	**280**	**270**	**170**	<100	**370**	**570**	**420**	**160**	<100	**580**	**450**	-	-	-	-	-	-	<0.2	<1	<0.5	<1	**73**	**140**	**30**	**46**	**4**	**8**	**34**	**20**	**6**	**9**	**5**	**11**	**1**	**4**	<1	<1
329	**6 - 6.2**	**Natural**	**14 Aug 2023**	**26**	<50	<50	<100	<100	<25	**27**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**1**	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329	**6.8 - 7**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<25	**340**	**340**	**690**	**130**	<25	<25	**330**	**550**	**250**	**1,100**	**1,200**	-	-	-	-	-	-	<0.2	-	**5**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<25	**70**	**70**	**500**	<100	<25	<25	**74**	**370**	**180**	**630**	**570**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	<25	<50	<50	**230**	<100	<25	<25	<50	**180**	<100	**180**	**230**	-	-	-	-	-	-	<0.2	-	<0.5	-	**4**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**1.8 - 2**	**Fill**	**14 Aug 2023**	<25	<50	<50	**120**	<100	<25	<25	<50	<100	<100	<50	**120**	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**2.8 - 3**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**3.3 - 3.5**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329A	**3.8 - 4**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**0.1 - 0.2**	**Fill**	**14 Aug 2023**	<25	<50	<50	**200**	<100	<25	<25	<50	**140**	**110**	**250**	**200**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<25	**65**	**63**	**430**	<100	<25	<25	**68**	**320**	**160**	**540**	**490**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**1.5 - 1.6**	**Fill**	**14 Aug 2023**	<25	<50	<50	**150**	<100	<25	<25	<50	**100**	<100	**100**	**150**	-	-	-	-	-	-	<0.2	-	**1**	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**2 - 2.2**	**Fill**	**14 Aug 2023**	<25	<50	<50	**170**	<100	<25	<25	<50	<100	<100	<50	**170**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**2.5 - 2.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**3.5 - 3.7**	**Fill**	**14 Aug 2023**	**25**	<50	<50	<100	<100	<25	**25**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**4.3 - 4.5**	**Fill**	**14 Aug 2023**	**100**	<50	<50	<100	<100	**43**	**110**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**5 - 5.1**	**Fill**	**14 Aug 2023**	**130**	**110**	**110**	**360**	**120**	<25	**130**	**180**	**160**	**270**	**600**	**580**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329B	**5.2 - 5.4**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329B	**6.8 - 7**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C	**0.1 - 0.2**	**Fill**	**15 Aug 2023**	<25	**64**	**64**	**300**	<100	<25	<25	**73**	**240**	<100	**320**	**360**	-	-	-	-	-	-	<0.2	-	**0.6**	-	**1**	-	**3**	-	<1	-	**3**	-	-	-	-	-	-	-	-
329C	**0.5 - 0.7**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**0.7**	-	**1**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C/PACM2	**1**	**Material**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**1.5 - 1.7**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C	**2.3 - 2.5**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C	**3.3 - 3.5**	**Fill**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C	**4.1 - 4.3**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329C	**4.6 - 4.8**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329C	**5.1 - 5.3**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329C	**5.6 - 5.8**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329C	**6.8 - 7**	**Natural**	**15 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329D	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<25	<50	<50	**380**	<100	<25	<25	<50	**270**	**140**	**420**	**380**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329D	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<25	<50	<50	**740**	**300**	<25	<25	<50	**390**	**460**	**850**	**1,000**	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	**3**	-	**2**	-	**4**	-	-	-	-	-	-	-	-
329D	**0.9 - 1.1**	**Fill**	**14 Aug 2023**	<25	<50	<50	**310**	**300**	<25	<25	<50	**110**	**300**	**400**	**610**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329D	**1.9 - 2.1**	**Fill**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
329D	**2.4 - 2.6**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329D	**2.9 - 3.1**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	**110**	<100	<100	**240**	<100	<100	<0.2	-	**7**	-	**1,300**	-	**610**	-	**180**	-	-	**72**	**24**	**34**	<1	**33**	**3**	**2**	<1	<1
329D	**3.4 - 3.6**	**Natural**	**14 Aug 2023**	**2,700**	**250**	**250**	<100	<100	**4,200**	**5,700**	**690**	<100	<100	**690**	**250**	**160**	<100	<100	**430**	<100	<100	<0.2	<100	**10**	<100	**1,900**	**2,800**	**870**	**2,700**	**210**	**1,300**	**1,100**	**76**	**26**	**40**	<1	**38**	**4**	**2**	<1	<1
329D	**4 - 4.2**	**Natural**	**14 Aug 2023**	**6,900**	**1,300**	**1,300**	**490**	<100	**12,000**	**15,000**	**2,900**	**450**	<100	**3,300**	**1,800**	**1,200**	<100	<100	**2,600**	<100	<100	<0.2	<200	**64**	**290**	**5,000**	**45,000**	**2,300**	**20,000**	**760**	**8,000**	**3,100**	**180**	**67**	**98**	<1	**93**	**18**	**9**	<1	<1
329D	**4.5 - 4.7**	**Natural**	**14 Aug 2023**	**2,200**	**850**	**850**	**130**	<100	**3,200**	**4,400**	**1,700**	**120**	<100	**1,900**	**980**	**490**	<100	<100	**980**	<100	<100	<0.2	-	**24**	-	**1,400**	-	**610**	-	**200**	-	**810**	**88**	**25**	**22**	<1	**22**	**12**	**6**	<1	<1
329D	**5 - 5.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	**2,400**	<100	<100	**4,800**	<100	<100	<0.2	-	**33**	-	**1,600**	-	**750**	-	**170**	-	-	**60**	**24**	**24**	<1	**22**	**12**	**5**	<1	<1
329D	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	**2,500**	<100	<100	**4,200**	<100	<100	<0.2	<200	**120**	**610**	**3,100**	**21,000**	**1,300**	**9,600**	**390**	**3,600**	-	**220**	**66**	**48**	<1	**52**	**13**	**18**	<1	<1

Table J1: Summary of Soil Laboratory Results

				TRH											TPH						BTEX											MAH								
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000						81,000								
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL						NL								
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																														
VMP, Allnex (2020)																									1000		1000		1000		1000									
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																					
329D	**6 - 6.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<1	**1**	**2**	**51**	**360**	**33**	**270**	**4**	**35**	-	**53**	**17**	**7**	<1	**13**	**5**	**3**	<1	<1
329D	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	**67**	<100	<100	**70**	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
329D	**6.9 - 7**	**Natural**	**14 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**2**	-	<2	-	<1	-	<1	**2**	<1	<1	<1	<1	<1	<1	<1
330	**0.1 - 0.3**	**Fill**	**15 Aug 2023**	<25	**81**	**81**	**590**	**170**	<25	<25	**120**	**360**	**330**	**810**	**850**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
330	**1 - 1.2**	**Fill**	**15 Aug 2023**	<25	**90**	**90**	**490**	<100	<25	<25	**87**	**370**	**180**	**640**	**580**	-	-	-	-	-	-	<0.2	-	**0.8**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
330	**2 - 2.2**	**Fill**	**15 Aug 2023**	<25	**200**	**200**	**2,700**	<100	<25	<25	**180**	**2,500**	**250**	**3,000**	**2,900**	-	-	-	-	-	-	<0.2	-	**1**	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
331	**0.1 - 0.3**	**Fill**	**28 Aug 2023**	<25	**95**	**95**	**710**	<100	<25	<25	**91**	**600**	**180**	**870**	**800**	-	-	-	-	-	-	<0.2	-	**1**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
331	**1 - 1.2**	**Fill**	**28 Aug 2023**	**33**	**110**	**110**	**650**	**120**	**36**	**43**	**100**	**530**	**200**	**830**	**880**	<50	**170**	<100	<50	**130**	<100	<0.2	<10	**1**	**73**	**8**	**27**	<2	**330**	<1	**130**	<1	-	-	-	-	-	-	-	-
331	**2.5 - 2.7**	**Fill**	**28 Aug 2023**	**2,400**	**6,600**	**6,600**	**41,000**	**2,600**	**3,300**	**3,600**	**3,900**	**38,000**	**8,000**	**50,000**	**51,000**	**1,100**	**16,000**	**1,000**	**710**	**12,000**	**4,700**	**2**	<10	**450**	<10	**520**	**85**	**150**	**240**	**68**	**58**	**220**	-	-	-	-	-	-	-	-
331	**3 - 3.2**	**Fill**	**28 Aug 2023**	**7,700**	**1,400**	**1,400**	**2,700**	**210**	**10,000**	**13,000**	**2,200**	**2,400**	**500**	**5,100**	**4,300**	**730**	**870**	<100	**1,200**	**720**	**220**	**2**	-	**2,000**	-	**2,100**	-	**870**	-	**290**	-	**1,200**	**170**	**44**	**1,200**	**11**	**43**	**19**	<1	**230**	<1
331	**3.9 - 4.1**	**Fill**	**28 Aug 2023**	**18,000**	**1,600**	**1,600**	**6,400**	**180**	**33,000**	**38,000**	**3,100**	**6,000**	**560**	**9,700**	**8,200**	**310**	**2,000**	<100	**660**	**1,900**	**150**	**2**	<1000	**9,000**	**37,000**	**6,100**	**28,000**	**3,300**	**15,000**	**1,100**	**5,400**	**4,400**	**56**	**20**	**54**	**4**	**43**	<1	<1	**25**	<1
331	**4.8 - 5**	**Fill**	**28 Aug 2023**	**17,000**	**2,100**	**2,100**	**4,400**	**150**	**33,000**	**37,000**	**3,400**	**4,200**	**350**	**8,000**	**6,600**	**1,600**	**3,200**	<100	**2,700**	**3,100**	**180**	**5**	<1000	**9,600**	**52,000**	**6,000**	**37,000**	**3,300**	**18,000**	**1,100**	**7,500**	**4,400**	**120**	**40**	**120**	**9**	**95**	**21**	<1	**18**	<1
331	**5.2 - 5.4**	**Fill**	**28 Aug 2023**	**26,000**	**3,900**	**3,900**	**9,000**	**440**	**49,000**	**56,000**	**6,500**	**8,600**	**800**	**16,000**	**13,000**	**1,700**	**4,200**	**180**	**2,900**	**4,000**	**370**	**9**	<1,000	**15,000**	**96,000**	**8,600**	**40,000**	**4,800**	**21,000**	**1,200**	**7,600**	**6,000**	**170**	**64**	**180**	**14**	**140**	**12**	**9**	**9**	<1
331	**5.7 - 5.9**	**Fill**	**28 Aug 2023**	**44,000**	**4,400**	**4,400**	**8,600**	**450**	**85,000**	**96,000**	**8,100**	**8,200**	**880**	**17,000**	**13,000**	**3,100**	**5,700**	**200**	**5,800**	**5,400**	**490**	**11**	<1,000	**27,000**	**7,800**	**14,000**	**13,000**	**8,100**	**8,600**	**2,700**	**4,100**	**11,000**	**340**	**110**	**360**	**20**	**270**	**95**	<1	<1	<1
331	**6.3 - 6.5**	**Natural**	**28 Aug 2023**	**3,400**	**230**	**220**	**490**	<100	**4,200**	**5,300**	**390**	**450**	<100	**850**	**710**	**160**	**190**	<100	**260**	**200**	<100	**0.6**	<100	**390**	**4,800**	**970**	**8,200**	**430**	**3,600**	**150**	**1,200**	**580**	**28**	**8**	**27**	**2**	**21**	**3**	<1	**2**	<1
331	**6.8 - 7**	**Natural**	**28 Aug 2023**	**3,200**	**220**	**220**	**460**	<100	**6,500**	**7,500**	**380**	**430**	<100	**820**	**680**	-	-	-	-	-	-	**0.4**	<100	**1,700**	**17,000**	**1,700**	**17,000**	**690**	**6,800**	**210**	**2,100**	**900**	**22**	**6**	**21**	**1**	**16**	**2**	<1	**4**	<1
331	**7.3 - 7.5**	**Natural**	**28 Aug 2023**	**1,900**	**120**	**120**	**270**	<100	**3,300**	**3,800**	**200**	**250**	<100	**450**	**390**	-	-	-	-	-	-	**0.2**	-	**690**	-	**790**	-	**320**	-	**59**	-	**380**	-	-	-	-	-	-	-	-
331	**7.8 - 8**	**Natural**	**28 Aug 2023**	**2,600**	**130**	**130**	**290**	<100	**3,300**	**4,000**	**230**	**270**	<100	**490**	**420**	**58**	<100	<100	**96**	<100	<100	**0.3**	-	**480**	-	**610**	-	**260**	-	**49**	-	**310**	**14**	**4**	**13**	<1	**10**	**2**	<1	**2**	<1
331	**8.3 - 8.5**	**Natural**	**28 Aug 2023**	**1,000**	**180**	**180**	**380**	<100	**2,000**	**2,300**	**320**	**350**	<100	**680**	**560**	-	-	-	-	-	-	**0.4**	<100	**480**	**2,400**	**520**	**4,400**	**210**	**2,100**	**71**	**7,100**	**820**	**15**	**4**	**14**	<1	**11**	**2**	<1	**3**	<1
331	**8.8 - 9**	**Natural**	**28 Aug 2023**	<25	**460**	**450**	**880**	<100	**3,000**	**3,100**	**810**	**830**	<100	**1,600**	**1,300**	**110**	**180**	<100	**200**	**170**	<100	**0.2**	<1,000	**1,300**	**47,000**	**1,300**	**23,000**	**630**	**13,000**	**190**	**4,300**	**820**	**30**	**10**	**24**	**4**	**19**	**7**	<1	**29**	<1
331 (Retest 1)	**8.8 - 9**	**Natural**	**28 Aug 2023**	**13,000**	-	-	-	-	**12,000**	**20,000**	-	-	-	-	-	**110**	**180**	<100	**200**	**170**	<100	<20	-	**2,900**	-	**2,200**	-	**1,200**	-	**400**	-	**1,600**	-	-	-	-	-	-	-	-
331 (Retest 2)	**8.8 - 9**	**Natural**	**28 Aug 2023**	**5,000**	-	-	-	-	**9,900**	**12,000**	-	-	-	-	-	-	-	-	-	-	-	<20	-	**2,900**	-	**2,400**	-	**1,300**	-	**420**	-	**1,700**	-	-	-	-	-	-	-	-
332	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<25	<50	<50	**610**	**510**	<25	<25	<50	**320**	**470**	**790**	**1,100**	<50	**290**	**200**	<50	**130**	**240**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
332	**1 - 1.2**	**Fill**	**29 Aug 2023**	<25	**440**	**440**	**1,800**	**250**	<25	<25	**390**	**1,600**	**480**	**2,400**	**2,500**	**120**	**320**	<100	**100**	**260**	**110**	<0.2	-	**1**	-	**1**	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<25	<50	<50	**520**	**620**	<25	<25	<50	**240**	**470**	**710**	**1,100**	<50	**240**	**150**	<50	**110**	**190**	<0.2	-	**0.5**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333	**1 - 1.2**	**Fill**	**29 Aug 2023**	<25	**110**	**110**	**710**	<100	<25	<25	**100**	**610**	**160**	**870**	**820**	<50	**150**	<100	<50	**120**	<100	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333	**1.5 - 1.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2 - 2.2**	**Fill**	**29 Aug 2023**	<25	<50	<50	**370**	**100**	<25	<25	<50	**280**	**150**	**430**	**480**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333 (Retest 1)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 2)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2.4 - 2.6**	**Fill**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 1)	**5.8 - 6**	**Natural**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
333 (Retest 2)	**5.8 - 6**	**Natural**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
334	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<25	<50	<50	**840**	**810**	<25	<25	<50	**380**	**720**	**1,100**	**1,600**	<50	**430**	**220**	<50	**190**	**330**	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
334	**2 - 2.2**	**Fill**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	**50**	<100	<100	**50**	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**4**	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
334	**2.5 - 2.7**	**Fill**	**29 Aug 2023**	**110**	**340**	**340**	**130**	<100	**44**	**130**	**460**	**150**	<100	**610**	**470**	-	-	-	-	-	-	<0.2	<10	<0.5	**140**	**12**	**92**	**6**	**61**	<1	**68**	**6**	**23**	**5**	**1**	<1	**4**	<1	<1	<1	<1
334	**3 - 3.2**	**Fill**	**29 Aug 2023**	**140**	**280**	**280**	**600**	<100	**160**	**230**	**330**	**530**	**120**	**990**	**880**	**230**	**850**	<100	**300**	**740**	**170**	<0.2	<1	**8**	**1**	**39**	<1	**37**	**75**	**7**	**23**	**44**	**19**	**3**	**4**	<1	**6**	<1	<1	<1	<1
334	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	**36**	**71**	**70**	**810**	**180**	<25	**41**	**82**	**590**	**300**	**970**	**1,100**	<50	**640**	<100	**57**	**500**	**200**	<0.2	-	**0.7**	-	**1**	-	**3**	-	<1	-	**3**	-	-	-	-	-	-	-	-
334	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	<25	<50	<50	**210**	<100	<25	<25	**50**	**120**	**120**	**290**	**210**	<50	**140**	<100	<50	**120**	<100	<0.2	<1	<0.5	**4**	<1	**6**	<2	**5**	<1	**3**	<1	-	-	-	-	-	-	-	-	-
334	**6 - 6.2**	**Natural**	**29 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	<1	**0.8**	<1	**1**	<1	<2	<2	<1	<1	<1	-	-	-	-	-	-	-	-
334	**6.8 - 7**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**7.3 - 7.5**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
335	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
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335	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD5/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
335	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
BD6/20230824^	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
335	**5.7 - 5.9**	**Natural**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**0.2 - 0.3**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**0.4 - 0.5**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**0.6 - 0.7**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**1.1 - 1.2**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**1.4 - 1.5**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
336	**2.4 - 2.6**	**Fill**	**24 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
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337	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
337	**0.5 - 0.7**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
337	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
337	**2.4 - 2.6**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
337	**4.8 - 5**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
337	**6.8 - 7**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230825*	**6.8 - 7**	**Natural**	**25 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
337	**7.8 - 8**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD4/20230825^	**7.8 - 8**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
338	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
338	**1 - 1.2**	**Fill**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
338	**2.1 - 2.3**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
338	**4.8 - 5**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
338	**5.8 - 6**	**Natural**	**25 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	<1	<0.5	**54**	<1	**46**	<2	**36**	<1	**12**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
338	**6.8 - 7**	**Natural**	**25 Aug 2023**	**49**	**840**	**840**	**1,600**	<100	**28**	**66**	**1,100**	**1,500**	**290**	**2,900**	**2,400**	-	-	-	-	-	-	<0.2	<10	<0.5	**77**	**2**	**77**	**12**	**62**	**3**	**31**	**15**	-	-	-	-	-	-	-	-	-
338	**7.8 - 8**	**Natural**	**25 Aug 2023**	**690**	**390**	**390**	<100	<100	**310**	**780**	**760**	<100	<100	**760**	**390**	-	-	-	-	-	-	<0.2	-	<0.5	-	**9**	-	**61**	-	**18**	-	**79**	-	-	-	-	-	-	-	-
338 (Retest 1)~	**7.8 - 8**	**Natural**	**25 Aug 2023**	**620**	-	-	-	-	**280**	**730**	-	-	-	-	-	**220**	<100	<100	**440**	<100	<100	<0.2	<1	<0.5	**2**	**12**	<1	**81**	**23**	**21**	**21**	**100**	-	-	-	-	-	-	-	-
338 (Retest 2)	**7.8 - 8**	**Natural**	**25 Aug 2023**	**290**	-	-	-	-	**80**	**300**	-	-	-	-	-	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	**8**	-	**3**	-	**11**	-	-	-	-	-	-	-	-
BD1/20230825*	**7.8 - 8**	**Natural**	**25 Aug 2023**	**64**	<50	<50	<100	<100	**33**	**70**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	**0.6**	-	**4.4**	-	**1.4**	-	**5.8**	-	-	-	-	-	-	-	-
339	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
339	**1 - 1.2**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
339	**1.6 - 1.8**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
339	**2.8 - 3**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
339	**4.8 - 5**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD2/20230828^	**4.8 - 5**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
339	**5.8 - 6**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
339	**7.8 - 8**	**Natural**	**28 Aug 2023**	**37**	<50	<50	<100	<100	<25	**37**	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD3/20230828*	**7.8 - 8**	**Natural**	**28 Aug 2023**	**73**	**290**	**290**	<100	<100	**34**	**73**	**500**	<100	<100	**500**	**290**	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
340	**0.3 - 0.5**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
340	**0.8 - 1**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	**2**	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
340	**1.1 - 1.3**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				TRH											TPH						BTEX										MAH									
				C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	C6-C9 Fraction	C6-C10 Fraction	C10-C14Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	>C10-C40 Fraction (Sum)	>C10-C16 Fraction (SG)	>C16-C34 Fraction (SG)	>C34-C40 Fraction (SG)	C10-C14 Fraction (SG)	C15-C28 Fraction (SG)	C29-C36 Fraction (SG)	Benzene	Benzene- ASLP	Toluene	Toluene - ASLP	Ethylbenzene	Ethylbenzene- ASLP	Xylene (m & p)	Xylene (m & p) - ASLP	Xylene (o)	Xylene (o) - ASLP	Xylene Total	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL				10	50	50	100	100	10	10	50	100	100	50	50	50	100	100	50	100	100	0.2	1	0.5	1	0.5	1	0.5	2	0.5	1	0.5	1	1	1	1	1	1	1	1
NEPC(2013) HILs for Comm/Ind D, Soil					20,000		27,000	38,000		26,000												430		99,000		27,000						81,000								
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				370 / 630		NL																3		NL		NL						NL								
NEPC (2013) Management Limits Comm/Ind, Sand					1,000		3,500	10,000		700																														
VMP, Allnex (2020)																									1000		1000		1000		1000									
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																																1,800	1,500	9,900	58,000	24,000		120,000	35,000	120,000
Sample ID	**Sample Depth**	**Matrix**	**Date**																																					
340	**2.8 - 3**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
340	**3.6 - 3.8**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
341	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	<25	<50	<50	**120**	<100	<25	<25	<50	<100	<100	<50	**120**	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
341	**0.7 - 0.9**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**1.2 - 1.4**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**1.7 - 1.9**	**Fill**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
341	**3.2 - 3.4**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
341	**5.8 - 6**	**Natural**	**28 Aug 2023**	<25	<50	<50	<100	<100	<25	<25	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<1	-	<2	-	<1	-	<1	-	-	-	-	-	-	-	-
BD1/20230828*	**5.8 - 6**	**Natural**	**28 Aug 2023**	<10	<50	<50	<100	<100	<10	<10	<50	<100	<100	<50	<50	-	-	-	-	-	-	<0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-
CPT101	**0.15 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT102	**0.13 - 0.2**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT103	**0.03 - 0.1**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT104	**0.18 - 0.25**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT105	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT106	**0.15 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT107	**0.16 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT108	**0.2 - 0.3**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT109	**0.17 - 0.3**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT110	**0.17 - 0.3**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT111	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT112	**0.17 - 0.3**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT113	**0.15 - 0.25**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT114	**0.2 - 0.3**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT115	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT116	**0.09 - 0.2**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT117	**0.17 - 0.3**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT118	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT119	**0.16 - 0.25**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT120	**0.13 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

^ : Intra-laboratory replicate listed directly below the primary.

* : Inter-laboratory replicate listed directly below the primary.

LRL : Laboratory reporting limit.

SAC : Refer to Appendix H for additional SAC informatic

: Criteria in line also includes NEMP (2020) PFAS and CRC Care (2011) direct contact criteria.

~ : Retest of sample 33/7.8-8 also included analysis of other analytes.

- Sample depth relative to current site levels.

Table J1: Summary of Soil Laboratory Results

| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

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| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

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| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

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| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

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| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

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| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

Table J1: Summary of Soil Laboratory Results

| | | | | Halogenated Benzenes | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | PAH | | | | | | | | | |

Table J1: Summary of Soil Laboratory Results

				PAH								Metals															PCB									OCP								
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP	Phenolics Total	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7	45							
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																						
NEPC (2013) Management Limits Comm/Ind, Sand																																												
VMP, Allnex (2020)																																												
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																																3.6		13	
Sample ID	**Sample Depth**	**Matrix**	**Date**																																									
201	**1.9 - 2**	**Fill**	**06 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	**2**	-	**4**	-	<0.1	-	**2**	-	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	**12 - 12.3**	**Natural**	**06 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.15 - 0.25**	**Fill**	**01 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**16**	-	**75**	-	**32**	-	**0.2**	-	**52**	-	**52**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
202	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230901^	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.8 - 1**	**Natural**	**01 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	**2**	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230901^	**0.8 - 1**	**Natural**	**01 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	**2**	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230901^	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**5.5 - 5.95**	**Natural**	**01 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	**1**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**7.5 - 7.95**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**10.5 - 10.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**18 - 18.45**	**Natural**	**01 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**19.5 - 19.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**0.25 - 0.35**	**Fill**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**12**	-	**16**	-	**63**	-	<0.1	-	**6**	-	**29**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
203	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230905*	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230905*	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**2 - 2.2**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230905*	**2 - 2.2**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**4 - 4.45**	**Natural**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**3**	-	<1	-	<0.1	-	**1**	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5 - 5.2**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230905^	**5 - 5.2**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5.5 - 5.95**	**Natural**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**8 - 8.35**	**Natural**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**14 - 14.45**	**Natural**	**05 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**56**	-	<0.4	-	**8**	-	**2**	-	<1	-	<0.1	-	**1**	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**17 - 17.45**	**Natural**	**05 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**18.5 - 18.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**0.5 - 0.7**	**Fill**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**2**	-	**7**	-	<0.1	-	**1**	-	**12**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
204	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230904^	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	**9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**2 - 2.2**	**Natural**	**04 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230904^	**2 - 2.2**	**Natural**	**04 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230904^	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**5 - 5.2**	**Natural**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	<1	-	**17**	-	<0.1	-	<1	-	**8**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230904^	**5 - 5.2**	**Natural**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**13**	-	<0.1	-	<1	-	**8**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**8 - 8.38**	**Natural**	**04 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**17 - 17.45**	**Natural**	**04 Sep 2023**	<1	<0.3	-	<0.3	-	<0.3	-	**0.4**	<4	-	<0.4	-	**5**	-	**3**	-	**2**	-	<0.1	-	**3**	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230904^	**17 - 17.45**	**Natural**	**04 Sep 2023**	<1	<0.3	-	<0.3	-	<0.3	-	<0.15	<4	-	<0.4	-	**4**	-	**3**	-	**3**	-	<0.1	-	**3**	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**20 - 20.4**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**9 - 9.3**	**Natural**	**07 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**10 - 10.45**	**Natural**	**07 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**13 - 13.45**	**Natural**	**07 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**17 - 17.45**	**Natural**	**07 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**0.15 - 0.25**	**Fill**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	**6**	-	**8**	-	<0.1	-	**3**	-	**13**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
206	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230908^	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230908^	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**2 - 2.2**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230908^	**2 - 2.2**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5 - 5.2**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230908^	**5 - 5.2**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5.5 - 5.95**	**Natural**	**08 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**9.5 - 9.8**	**Natural**	**08 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**16.5 - 16.95**	**Natural**	**08 Sep 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**14 - 14.45**	**Natural**	**31 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**15 - 15.45**	**Natural**	**31 Aug 2023**	<1	<0.2	-	<0.2	-	<0.2	-	<0.1	**56**	-	<0.4	-	**15**	-	**2**	-	**3**	-	<0.1	-	**3**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**20 - 20.38**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**0.2 - 0.4**	**Fill**	**30 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	<0.4	-	**26**	-	**6**	-	**400**	-	<0.1	-	**4**	-	**30**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
208	**1 - 1.45**	**Fill**	**30 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**260**	-	**3**	-	**1,400**	-	<0.1	-	**2**	-	**270**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208/PACM3	**1.45**	**Material**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**1.5 - 1.7**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	<0.4	-	**48**	-	**1**	-	**230**	-	<0.1	-	<1	-	**38**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230830^	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**5.5 - 5.95**	**Natural**	**30 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**8**	-	**1**	-	**10**	-	<0.1	-	**2**	-	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**7.5 - 7.95**	**Natural**	**30 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**22**	-	**2**	-	**3**	-	<0.1	-	**1**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**8.5 - 8.95**	**Natural**	**30 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**13.5 - 13.95**	**Natural**	**30 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**1**	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**15.5 - 15.95**	**Natural**	**30 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**0.5 - 0.7**	**Fill**	**11 Sep 2023**	**1**	**1.6**	-	**0.4**	-	**0.7**	-	**5.9**	<4	**2**	**2**	**0.4**	**300**	**82**	**130**	**22**	**1,700**	**230**	**20**	**6.3**	**11**	**2**	**1,000**	**140**	<5	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
209	**1 - 1.45**	**Fill**	**11 Sep 2023**	<1	**0.7**	-	**0.4**	-	**0.6**	-	**4.6**	**6**	**2**	**1**	<0.1	**240**	**36**	**64**	**16**	**1,200**	**49**	**37**	**1.5**	**13**	**1**	**540**	**17**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209/PACM4	**2**	**Material**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**2 - 2.2**	**Fill**	**11 Sep 2023**	**5**	**2.9**	-	**0.4**	-	**0.8**	-	**7.4**	**4**	**3**	**1**	**0.2**	**210**	**55**	**200**	**29**	**1,200**	**160**	**24**	**7.9**	**17**	**2**	**600**	**50**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
209	**2.5 - 2.9**	**Fill**	**11 Sep 2023**	**4**	**3.4**	-	**0.2**	-	**0.3**	-	**5.0**	**7**	-	**2**	-	**320**	-	**77**	-	**1,800**	-	**43**	-	**18**	-	**390**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**3.5 - 3.7**	**Fill**	**11 Sep 2023**	**3**	**4.6**	**3.5**	**0.3**	<0.1	**0.3**	<0.1	**6.6**	<4	**11**	**0.9**	**0.1**	**140**	**38**	**60**	**34**	**720**	**53**	**31**	**6.5**	**15**	**3**	**290**	**15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**4 - 4.45**	**Fill**	**11 Sep 2023**	**71**	-	**32**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5 - 5.2**	**Fill**	**11 Sep 2023**	**25**	**48**	**34**	**0.3**	<0.1	**0.3**	<0.1	**50**	**23**	-	**0.6**	-	**120**	-	**43**	-	**380**	-	**9.7**	-	**7**	-	**340**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5.5 - 5.95**	**Fill**	**11 Sep 2023**	**10**	**13**	**0.44**	<0.1	**0.10**	**0.2**	<0.1	**13**	**6**	**6**	<0.4	**0.2**	**86**	**29**	**27**	**18**	**240**	**76**	**6.8**	**1.7**	**7**	**3**	**250**	**100**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**6.5 - 6.95**	**Natural**	**11 Sep 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	<0.4	-	**8**	-	**2**	-	**12**	-	**0.1**	-	<1	-	**19**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
209	**8 - 8.3**	**Natural**	**11 Sep 2023**	<1	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**9 - 9.45**	**Natural**	**11 Sep 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**4**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
209	**11 - 11.3**	**Natural**	**11 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**3**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**15 - 15.2**	**Natural**	**11 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**23**	-	**5**	-	**12**	-	<0.1	-	**3**	-	**12**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**0.5 - 0.7**	**Fill**	**12 Sep 2023**	<1	**1.9**	-	**0.4**	-	**0.5**	-	**5.0**	<4	**5**	**0.7**	**0.2**	**130**	**40**	**41**	**19**	**860**	**200**	**7.6**	**0.4**	**10**	**2**	**230**	**55**	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**2 - 2.2**	**Fill**	**12 Sep 2023**	<1	**0.2**	-	**0.4**	-	**0.7**	-	**4.6**	<4	-	**0.4**	-	**88**	-	**38**	-	**460**	-	**8.2**	-	**10**	-	**170**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
210	**3.5 - 3.7**	**Fill**	**12 Sep 2023**	<1	**0.5**	-	**2.8**	-	**2.7**	-	**16**	**4**	**7**	**0.6**	**0.3**	**93**	**47**	**46**	**23**	**490**	**240**	**10**	**1.9**	**13**	**4**	**290**	**110**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**4 - 4.2**	**Fill**	**12 Sep 2023**	**24**	**110**	**6.1**	**9.5**	**1.1**	**4.7**	**0.41**	**140**	<4	**4**	**0.7**	**0.6**	**1,600**	**420**	**66**	**23**	**9,900**	**2,100**	**5.9**	**0.4**	**29**	**8**	**840**	**540**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PAH								Metals														Phenolics	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP	Phenolics Total	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7	45						
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																											
VMP, Allnex (2020)																																											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																																		
Sample ID	**Sample Depth**	**Matrix**	**Date**																																								
BD4/20230912^	**4 - 4.2**	**Fill**	**12 Sep 2023**	**14**	**92**	-	**8.2**	-	**3.6**	-	**120**	**9**	-	**1**	-	**1,800**	-	**100**	-	**12,000**	-	**10**	-	**25**	-	**1,300**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**5.5 - 5.8**	**Fill**	**12 Sep 2023**	**4**	**5.5**	**1.4**	**0.5**	**0.65**	**0.3**	<0.1	**7.3**	**110**	**10**	**1**	1	**19,000**	**980**	**170**	**60**	**100,000**	**7,000**	**8.3**	**0.3**	**55**	**16**	**4,300**	**910**		-	-	-	-	-	-	-	-	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
210	**5.8 - 5.95**	**Natural**	**12 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	**7**	<0.4	<0.1	**3**	**3**	<1	<1	**11**	**7**	<0.1	<0.05	<1	<1	**2**	**3**	<5	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
210	**7 - 7.45**	**Natural**	**12 Sep 2023**	<1	**2.4**	-	<0.1	-	<0.1	-	**2.4**	<4	**5**	<0.4	<0.1	**300**	**71**	**10**	**3**	**1,700**	**470**	**0.3**	**0.05**	**3**	**1**	**240**	**87**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**8.5 - 8.95**	**Natural**	**12 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**7**	-	<1	-	**13**	-	<0.1	-	<1	-	**1**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**13.5 - 13.6**	**Natural**	**12 Sep 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	**28**	-	<0.1	-	<1	-	**4**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
301	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	**1**	-	<1	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
301	**1 - 1.2**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**13**	-	**5**	-	<0.1	-	**10**	-	**20**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**0.8 - 1**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	**0.05**	<4	-	<0.4	-	<1	-	**2**	-	**3**	-	<0.1	-	<1	-	**6**	-		-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
302	**2.3 - 2.5**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	**1**	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**2.8 - 3**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**4.8 - 5**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**6.8 - 7**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**9.8 - 10**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**11.5 - 11.6**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**5**	-	**4**	-	<0.1	-	**1**	-	**5**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
303	**1.2 - 1.4**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**3**	-	<0.1	-	<1	-	**4**	-		-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
303	**1.7 - 1.9**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**2**	-	**5**	-	<0.1	-	<1	-	**2**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**2.1 - 2.3**	**Fill**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**2.6 - 2.8**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**1**	-	**1**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
303	**3 - 3.2**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**4.8 - 5**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230817*	**4.8 - 6**	**Natural**	**17 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**0.2 - 0.3**	**Fill**	**17 Aug 2023**	<1	**1.3**	-	<0.1	-	<0.1	-	**1.3**	<4	-	<0.4	-	**9**	-	**110**	-	**6**	-	<0.1	-	**19**	-	**16**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
304	**0.3 - 0.5**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**5**	-	<0.1	-	<1	-	**4**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**1.7 - 1.9**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**2**	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**2.8 - 3**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**3.8 - 4**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**4.3 - 4.5**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**4.8 - 5**	**Natural**	**17 Aug 2023**	**2**	**1.7**	-	<0.1	-	<0.1	-	**1.7**	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	**1**	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**5.3 - 5.5**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**5.8 - 6**	**Natural**	**17 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**0.2 - 0.3**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
305	**1 - 1.2**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**1**	-	<0.1	-	**1**	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**2 - 2.2**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**3.8 - 4**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**4.8 - 5**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**4**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230822*	**4.8 - 5**	**Natural**	**22 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**5.8 - 6**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	**6**	-	**3**	-	<0.1	-	**2**	-	**5**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
306	**0.8 - 1**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	**1.2 - 1.4**	**Fill**	**11 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	**3.8 - 4**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**21**	-	**13**	-	<0.1	-	**4**	-	**17**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
307	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**3**	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**1.9 - 2.1**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**4.8 - 5**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**5.8 - 6**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**6.8 - 7**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230825^	**6.8 - 7**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<1	<0.1	-	**0.1**	-	<0.1	-	**0.1**	<4	-	<0.4	-	**3**	-	**49**	-	**4**	-	<0.1	-	**13**	-	**14**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
308	**1 - 1.2**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	**3**	-	**16**	-	**0.5**	-	**1**	-	**13**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**1.7 - 1.9**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**4.8 - 5**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**5.8 - 6**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**6.8 - 7**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**9.8 - 10**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**10.8 - 11**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**6**	-	**30**	-	<0.1	-	**4**	-	**4**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
309	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**0.9 - 1.1**	**Fill**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	<1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**1.8 - 2**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**2.8 - 3**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**4.8 - 5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**5.8 - 6**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**7.8 - 8**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**32**	-	**20**	-	**6**	-	<0.1	-	**34**	-	**40**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
310	**0.8 - 1**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	**2**	-	<1	-	<0.1	-	<1	-	<1	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
310	**1.6 - 1.8**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**3.6 - 3.8**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**4.6 - 4.8**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230816^	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**6.6 - 6.8**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**7.6 - 7.8**	**Natural**	**16 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**0.2 - 0.3**	**Fill**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**9**	-	**51**	-	**7**	-	<0.1	-	**7**	-	**18**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
311	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	<1	<0.1	-	**0.4**	-	**0.7**	-	**4.4**	**19**	-	**0.4**	-	**66**	-	**27**	-	**64**	-	<0.1	-	**3**	-	**110**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**2 - 2.2**	**Fill**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	**0.2**	-	**0.4**	**30**	-	**0.5**	-	**41**	-	**70**	-	**51**	-	<0.1	-	**3**	-	**470**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
311	**3.4 - 3.6**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**4.4 - 4.6**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**5.4 - 5.6**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	**4**	-	**9**	-	<0.1	-	**1**	-	**31**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**6.4 - 6.6**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**7.4 - 7.6**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**8.4 - 8.6**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**4**	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**0.15 - 0.25**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**14**	-	**27**	-	**54**	-	<0.1	-	**37**	-	**67**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
312/PACM3	**0.2**	**Material**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PAH								Metals															Phenolics Total	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP		Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7		45						
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																											
VMP, Allnex (2020)																																											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																																		
Sample ID	**Sample Depth**	**Matrix**	**Date**																																								
312	**0.4 - 0.6**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	**2**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**1.5 - 1.7**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	**5**	-	<0.1	-	<1	-	**6**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**1.8 - 2**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	**1**	-	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**3.8 - 4**	**Natural**	**23 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**4.8 - 5**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**4**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230823^	**4.8 - 5**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	**0.4**	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**5.8 - 6**	**Natural**	**23 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**6.8 - 7**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**10.8 - 11**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**0.4 - 0.5**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**33**	-	**44**	-	<0.1	-	**5**	-	**45**	-	<5	-	-	-	-	-	-	-	**0.7**	<0.1	<0.1	-	-	<0.1	-	<0.1	-
313	**0.8 - 1**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**11**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-
313	**1.4 - 1.6**	**Fill**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**2**	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**2.8 - 3**	**Natural**	**23 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	**1**	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**3.8 - 4**	**Natural**	**23 Aug 2023**	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.3 - 4.5**	**Natural**	**23 Aug 2023**	**12**	**9.3**	-	<0.1	-	<0.1	-	**9.3**	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.8 - 5**	**Natural**	**23 Aug 2023**	**13**	**9.3**	**230**	<0.1	<0.1	<0.1	<0.1	**9.3**	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**5.3 - 5.5**	**Natural**	**23 Aug 2023**	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**5.8 - 6**	**Natural**	**23 Aug 2023**	**5**	**2.9**	-	<0.1	-	<0.1	-	**2.9**	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.3 - 6.5**	**Natural**	**23 Aug 2023**	**13**	-	**87**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.8 - 7**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**7.8 - 8**	**Natural**	**23 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**8.8 - 9**	**Natural**	**23 Aug 2023**	**3**	-	**22**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
314	**0.15 - 0.25**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**52**	-	**12**	-	**0.3**	-	**8**	-	**94**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**0.6 - 0.8**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**1.7 - 1.9**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**2 - 2.2**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**4.8 - 5**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**5.3 - 5.5**	**Natural**	**22 Aug 2023**	**26**	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**5.8 - 6**	**Natural**	**22 Aug 2023**	**140**	-	**480**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.3 - 6.5**	**Natural**	**22 Aug 2023**	**86**	-	**200**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.8 - 7**	**Natural**	**22 Aug 2023**	**29**	-	**350**	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.3 - 7.5**	**Natural**	**22 Aug 2023**	**56**	<0.1	**730**	<0.1	<0.1	<0.1	<0.1	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.8 - 8**	**Natural**	**22 Aug 2023**	**39**	**19**	**390**	<0.1	<0.1	<0.1	<0.1	**19**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	**0.06**	<4	-	**0.9**	-	**100**	-	**50**	-	**710**	-	**0.3**	-	**67**	-	**460**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**0.8 - 1**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**11**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
315	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	<1	-	**3**	-	<0.1	-	**2**	-	**4**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
315	**2.8 - 3**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230811^	**2.8 - 3**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**3.8 - 4**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**4.8 - 5**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**5.3 - 5.5**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**5.8 - 6**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**6.3 - 6.5**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**6.8 - 7**	**Natural**	**11 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**7.8 - 8**	**Natural**	**11 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**13**	-	**11**	-	<0.1	-	**4**	-	**22**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
316	**0.5 - 0.7**	**Fill**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**1.4 - 1.6**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	>5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**3.8 - 4**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**4.8 - 5**	**Natural**	**22 Aug 2023**	**6**	**3.1**	-	<0.1	-	<0.1	-	**3.3**	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	**66**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230822^	**4.8 - 5**	**Natural**	**22 Aug 2023**	**8**	**3.2**	-	<0.1	-	<0.1	-	**3.2**	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**5.8 - 6**	**Natural**	**22 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**6.8 - 7**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**9.8 - 10**	**Natural**	**22 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**12**	-	<0.4	-	**6**	-	**3**	-	**4**	-	<0.1	-	**2**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**0.2 - 0.3**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	**7**	-	**29**	-	<0.1	-	**3**	-	**33**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
317	**1 - 1.2**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**12**	-	<0.1	-	**2**	-	**11**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
317	**1.7 - 1.9**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**7**	-	<0.1	-	**2**	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**3.8 - 4**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**4.8 - 5**	**Natural**	**21 Aug 2023**	<1	<1	-	<1	-	<1	-	<0.5	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**5.8 - 6**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**6.8 - 7**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**7.8 - 8**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**8.8 - 9**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**9.8 - 10**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	<1	-	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**1 - 1.2**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**1**	-	**2**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
318	**1.5 - 1.7**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**2.5 - 2.7**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**3.5 - 3.7**	**Natural**	**15 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.5 - 4.7**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.8 - 5**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**5.8 - 6**	**Natural**	**15 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**6.8 - 7**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**0.25 - 0.35**	**Fill**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**43**	-	**22**	-	**140**	-	**0.6**	-	**25**	-	**67**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
319	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**3**	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**1.1 - 1.3**	**Fill**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**11**	-	**1**	-	**7**	-	<0.1	-	<1	-	**12**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**1.4 - 1.6**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	<1	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**2.8 - 3**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**3.8 - 4**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230810^	**3.8 - 4**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**4.8 - 5**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**5.8 - 6**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**6.8 - 7**	**Natural**	**10 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**7.8 - 8**	**Natural**	**10 Aug 2023**	<1	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320	**0.1 - 0.3**	**Fill**	**18 Aug 2023**	<1	**0.2**	-	**0.2**	-	**0.4**	-	**4.6**	**6**	<1	**4.4**	**0.3**	**420**	**150**	**84**	**8**	**4,800**	**190**	**41**	**24**	**110**	**4**	**910**	**63**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
320	**0.4 - 0.6**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**14**	-	**0.2**	-	**5**	-	**36**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320A	**0.15 - 0.25**	**Fill**	**16 Aug 2023**	<1	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<4	-	<0.4	-	**8**	-	**1**	-	**67**	-	<0.1	-	<1	-	**5**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
320A	**0.5 - 0.6**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**9**	-	**2**	-	**83**	-	**0.1**	-	**1**	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320B	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**18**	-	**13**	-	**120**	-	<0.1	-	**10**	-	**53**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320B	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**1**	-	**12**	-	<0.1	-	**1**	-	**14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PAH								Metals														Phenolics	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP	Phenolics Total	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	0.1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7		45						
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																											
VMP, Allnex (2020)																																											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																															3.6		13	
Sample ID	**Sample Depth**	**Matrix**	**Date**																																								
320B	**0.8 - 1**	**Natural**	**17 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**81**	-	**8**	-	**1,800**	**890**	<0.1	-	**12**	-	**35**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**4**	-	<0.1	-	**1**	-	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**1.8 - 2**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	**2**	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**0 - 0.1**	**Fill**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	**0.1**	-	**0.64**	**6**	**6**	**2**	<0.1	**410**	**34**	**160**	**3**	**1,600**	**23**	**20**	**0.1**	**96**	<1	**1,000**	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**0.3 - 0.4**	**Fill**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	**3**	<0.4	<0.1	**140**	**410**	**17**	**2**	**690**	**29**	**1.7**	<0.05	**13**	<1	**130**	**2**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	-
320D	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**1.8 - 2**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	**1**	-	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**9**	-	**35**	-	**42**	-	**1.1**	-	**7**	-	**51**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	-	-	<0.1	-	<0.1	-
321	**1 - 1.2**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**8**	-	**29**	-	**25**	-	**0.4**	-	**7**	-	**180**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**2 - 2.2**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**11**	-	**22**	-	**28**	-	**0.8**	-	**7**	-	**46**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**4 - 4.2**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**3**	-	<0.1	-	**1**	-	**6**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**5 - 5.2**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**6 - 6.2**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**7 - 7.2**	**Natural**	**15 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	**0.5**	-	**0.1**	-	**0.1**	-	**0.99**	<4	-	<0.4	-	**77**	-	**15**	-	**560**	**28**	**0.1**	-	**13**	-	**110**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	**1**	-	**4**	-	<0.1	-	<1	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**1.8 - 2**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**19**	-	**36**	-	<0.1	-	<1	-	**46**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**4**	-	**22**	-	<0.1	-	<1	-	**26**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**3 - 3.2**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	**1.2**	-	**0.2**	-	**0.1**	-	**1.9**	<4	-	**0.7**	-	**130**	-	**48**	-	**3,800**	**460**	**95**	**15**	**29**	-	**490**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**5**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**1 - 1.2**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**18**	-	**3**	-	**260**	-	**0.3**	-	**1**	-	**28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**1.8 - 2**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**14**	-	<0.1	-	<1	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**10**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230816^	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	<0.4	-	**26**	-	**22**	-	**430**	-	**0.3**	-	**12**	-	**100**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
322B	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**1**	-	**8**	-	<0.1	-	<1	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**1.5 - 1.7**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	**2**	-	**6**	-	<0.1	-	<1	-	**12**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**2 - 2.2**	**Fill**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**2**	-	**25**	-	<0.1	-	<1	-	**21**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**3 - 3.2**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	<1	-	<0.1	-	<1	-	**39**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<1	<0.1	-	**0.1**	-	<0.1	-	**0.1**	<4	-	<0.4	-	**56**	-	**28**	-	**8**	-	<0.1	-	**65**	-	**38**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<1	<0.1	-	**0.2**	-	<0.1	-	**0.2**	<4	-	<0.4	-	**50**	-	**26**	-	**16**	-	<0.1	-	**56**	-	**46**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
322C	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**1.5 - 1.7**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230816^	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**4.8 - 5**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**4**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**5.8 - 6**	**Natural**	**16 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**7.8 - 8**	**Natural**	**16 Aug 2023**	**2**	**1.3**	-	<0.1	-	<0.1	-	**1.4**	<4	-	**1**	-	**1**	-	<1	-	**2**	-	<0.1	-	<1	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<1	**0.3**	-	<0.1	-	<0.1	-	**0.3**	<4	-	<0.4	-	**43**	-	**24**	-	**380**	-	**1.0**	-	**10**	-	**75**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
322D	**0.7 - 0.9**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**5**	-	<1	-	**3**	-	<0.1	-	<1	-	**6**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
322D	**1.7 - 1.9**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**1**	-	**19**	-	<0.1	-	<1	-	**22**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	**2.2 - 2.4**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	**2**	-	**1**	-	<0.1	-	<1	-	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	**2.6 - 2.8**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**1**	-	**22**	-	<0.1	-	<1	-	**18**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	<1	**0.4**	-	<0.1	-	<0.1	-	**0.4**	<4	-	**0.5**	-	**22**	-	**47**	-	**150**	-	**3.9**	-	**11**	-	**45**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
323	**0.7 - 0.9**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
323	**2.1 - 2.3**	**Fill**	**24 Aug 2023**	<1	**0.4**	-	<0.1	-	<0.1	-	**0.4**	<4	-	<0.4	-	**3**	-	**2**	-	**10**	-	**0.3**	-	**2**	-	**12**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
323	**2.5 - 2.7**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**1**	-	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230824*	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	**1**	-	**16**	-	**68**	-	**110**	-	**80**	-	**13**	-	**190**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
324	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**1**	-	**3**	-	**4.4**	-	**1**	-	**41**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
324	**1.8 - 2**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
BD2/20230821*	**1.8 - 2**	**Natural**	**21 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	<0.1	<0.05	<0.05	-	-	<0.05	-	<0.05	-
325	**0.2 - 0.4**	**Fill**	**21 Aug 2023**	<1	**0.1**	-	**0.2**	-	**1**	-	**6.9**	<4	-	**0.9**	-	**13**	-	**50**	-	**100**	-	**0.7**	-	**12**	-	**110**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
325	**0.8 - 1**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
325	**3.8 - 4**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	**4.8 - 5**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230821^	**4.8 - 5**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	**6.8 - 7**	**Natural**	**21 Aug 2023**	<1	**0.3**	-	<0.1	-	<0.1	-	**0.3**	<4	-	<0.4	-	**3**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	**0.2**	-	**0.4**	<4	-	**1**	-	**17**	-	**42**	-	**180**	-	**1.5**	-	**12**	-	**200**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	-	<0.1	<0.2
326	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**14**	-	**11**	-	**0.2**	-	<1	-	**160**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
326	**1 - 1.2**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**4**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
326	**3.3 - 3.5**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**6**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**3.8 - 4**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**4.3 - 4.5**	**Natural**	**21 Aug 2023**	**8**	**4.4**	-	<0.1	-	<0.1	-	**4.4**	<4	-	<0.4	-	**3**	-	<1	-	**4**	-	**0.2**	-	**1**	-	**7**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**4.8 - 5**	**Natural**	**21 Aug 2023**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**5.3 - 5.5**	**Natural**	**21 Aug 2023**	**10**	**6.3**	-	<0.1	-	<0.1	-	**6.3**	<4	-	<0.4	-	**2**	-	<1	-	**5**	-	<0.1	-	<1	-	**8**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**5.8 - 6**	**Natural**	**21 Aug 2023**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**6.3 - 6.5**	**Natural**	**21 Aug 2023**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**6.8 - 7**	**Natural**	**21 Aug 2023**	**1**	**0.4**	-	<0.1	-	<0.1	-	**0.4**	<4	-	<0.4	-	**10**	-	<1	-	**3**	-	<0.1	-	<1	-	**5**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**7.3 - 7.5**	**Natural**	**21 Aug 2023**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**7.8 - 8**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**8.3 - 8.5**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**8.8 - 9**	**Natural**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	**0.5**	-	**17**	-	**160**	-	**150**	-	**3.0**	-	**21**	-	**240**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
327	**0.5 - 0.7**	**Fill**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	**3**	-	<0.1	-	**1**	-	**16**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
327	**1.8 - 2**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**4.8 - 5**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**5.8 - 6**	**Natural**	**18 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230818*	**5.8 - 6**	**Natural**	**18 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**6.8 - 7**	**Natural**	**18 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PAH								Metals														Phenolics	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP	Phenolics Total	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7		45						
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																											
VMP, Allnex (2020)																																											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																															3.6		13	
Sample ID	**Sample Depth**	**Matrix**	**Date**																																								
328	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**4**	**2**	**1**	**0.2**	**94**	**9**	**230**	**26**	**1,600**	**320**	**12**	**3**	**16**	<1	**1,700**	**170**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328	**0.4 - 0.6**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	<1	<0.4	<0.1	**14**	**27**	**7**	**13**	**510**	**620**	**5.2**	**7.5**	<1	<1	**40**	**85**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328	**0.8 - 1**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**12**	-	**5**	-	**150**	-	**4.7**	-	<1	-	**28**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328	**1.3 - 1.5**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**18**	-	**11**	-	**96**	-	**1.6**	-	<1	-	**45**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	**2.8 - 3**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**6**	-	**0.2**	-	<1	-	**28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<1	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<4	**2**	**2**	**0.4**	**130**	**39**	**480**	**160**	**2,300**	**400**	**26**	**10**	**13**	**4**	**2,300**	**160**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328A	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**10**	-	**19**	-	**340**	-	**2.5**	-	<1	-	**20**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328A	**1.5 - 1.7**	**Fill**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**18**	-	**21**	-	**170**	-	**5.5**	-	<1	-	**38**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**2.4 - 2.6**	**Fill**	**21 Aug 2023**	**2**	**0.7**	-	<0.1	-	<0.1	-	**0.72**	<4	-	<0.4	-	**20**	-	**4**	-	**36**	-	**1.1**	-	<1	-	**29**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**3.3 - 3.5**	**Fill**	**21 Aug 2023**	<1	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<4	-	<0.4	-	**23**	-	<1	-	**4**	-	<0.1	-	**2**	-	**15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**3.8 - 4**	**Fill**	**21 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**4.1 - 4.3**	**Natural**	**21 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**7**	-	<1	-	**3**	-	<0.1	-	**1**	-	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<1	**0.2**	-	**0.1**	-	**0.3**	-	**2.2**	<4	**1**	**0.7**	**0.1**	**72**	**13**	**91**	**38**	**2,300**	**280**	**5.8**	**2**	**6**	<1	**890**	**580**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328B	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	**2**	<0.4	<0.1	**6**	**7**	**6**	**7**	**32**	**27**	**1.0**	**1.2**	<1	<1	**38**	**66**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**2.7 - 2.9**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	**0.2**	-	**1.6**	**16**	**46**	**0.4**	**0.3**	**91**	**8**	**37**	**14**	**180**	**10**	**0.5**	**0.1**	**5**	**4**	**190**	**200**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**3.1 - 3.3**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**11**	-	**0.1**	-	<1	-	**7**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**3.5 - 3.6**	**Fill**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**4.8 - 5**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**3**	-	<0.1	-	**1**	-	**17**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**7.8 - 8**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**22**	-	**11**	-	**110**	-	**0.7**	-	**2**	-	**150**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	**3**	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**12**	**3**	**15**	**0.4**	**190**	**59**	**1,800**	**35**	**5,700**	**300**	**19**	**1.8**	**89**	**2**	**25,000**	**310**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328C	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	<1	<0.4	**0.2**	**12**	**8**	**22**	**22**	**3,200**	**1,200**	**3.2**	**4**	**1**	<1	**69**	**140**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328C	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**2.6 - 2.8**	**Fill**	**24 Aug 2023**	<1	<0.1	-	**0.2**	-	**0.4**	-	**2.4**	**84**	**4**	**1**	**0.2**	**120**	**8**	**120**	**4**	**230**	**19**	**1.5**	**0.05**	**25**	**3**	**970**	**660**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**3.2 - 3.4**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**15**	-	<1	-	**3**	-	<0.1	-	**2**	-	**63**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**4.8 - 5**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**1**	-	<0.1	-	**1**	-	**37**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**6.8 - 7**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**4**	-	<0.1	-	<1	-	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**7.8 - 8**	**Natural**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**0.25 - 0.35**	**Fill**	**11 Aug 2023**	<1	**0.3**	-	<0.1	-	<0.1	-	**1.8**	<4	-	**14**	-	**510**	**48**	**1,200**	-	**3,800**	**210**	**150**	**87**	**41**	-	**830**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
328D	**0.5 - 0.7**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	**0.1**	**9**	-	**4**	-	**140**	**19**	**79**	-	**150**	**8**	**7.2**	**4.4**	**4**	-	**320**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
328D	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	**0.6**	-	**20**	-	**5**	-	**36**	-	**1.8**	-	<1	-	**15**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**2.4 - 2.6**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**7**	-	<1	-	**1**	-	<0.1	-	**1**	-	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**3 - 3.2**	**Natural**	**11 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	**1**	-	<0.1	-	**1**	-	**9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**0 - 0.1**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329/PACM1	**Surface**	**Material**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<1	**0.6**	-	**1.8**	-	**1.8**	-	**11**	<4	-	**0.7**	-	**77**	-	**37**	-	**410**	-	**22**	0.6	**10**	-	**190**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
329	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<1	**0.4**	-	**0.2**	-	**0.2**	-	**2.0**	**4**	-	**3**	-	**300**	**40**	**190**	-	**4,800**	**120**	**18**	**1.5**	**10**	-	**510**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**1 - 1.2**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	**0.6**	-	**230**	-	**20**	-	**1,000**	-	**0.6**	-	**4**	-	**140**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	**0.1**	<4	-	<0.4	-	**47**	-	**24**	-	**450**	**56**	**0.3**	-	**3**	-	**86**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329	**2.3 - 2.5**	**Fill**	**14 Aug 2023**	<1	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<4	-	<0.4	-	**91**	-	**22**	-	**160**	-	**0.6**	-	**4**	-	**87**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**2.8 - 3**	**Fill**	**14 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	**8**	-	**17**	-	**140**	-	**8**	-	**49**	-	**0.7**	-	**5**	-	**330**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**3.8 - 4**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**30**	-	**3**	-	**57**	-	**0.5**	-	**1**	-	**18**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**4.1 - 4.3**	**Natural**	**14 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**4.6 - 4.8**	**Natural**	**14 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**5 - 5.2**	**Natural**	**14 Aug 2023**	**15**	**11**	-	<0.1	-	<0.1	-	**11**	<4	-	<0.4	-	**23**	-	<1	-	**2**	-	**0.2**	-	**1**	-	**9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6 - 6.2**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**7**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	<1	**1.2**	-	**0.3**	-	**0.4**	-	**3.7**	<4	-	<0.4	-	**7**	-	<1	-	**1**	-	<0.1	-	<1	-	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6.8 - 7**	**Natural**	**14 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<1	**1.6**	-	**0.7**	-	**0.3**	-	**4.4**	**5**	-	**4.5**	-	**200**	**37**	**96**	-	**1,200**	**49**	**15**	**0.9**	**16**	-	**640**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329A	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<1	**0.2**	-	<0.1	-	**0.3**	-	**2.1**	<4	-	**1**	-	**140**	-	**68**	-	**870**	-	**10**	-	**8**	-	**280**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**23**	-	**49**	-	**210**	**18**	**36**	**12**	**14**	-	**120**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329A	**1.8 - 2**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**63**	-	**14**	-	**420**	-	**2.6**	-	**6**	-	**98**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**2.8 - 3**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**20**	-	**13**	-	**66**	-	<0.1	-	**4**	-	**56**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**3.3 - 3.5**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**4**	-	**38**	-	<0.1	-	**1**	-	**44**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**3.8 - 4**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**0.1 - 0.2**	**Fill**	**14 Aug 2023**	<1	**0.1**	-	**0.7**	-	**2.6**	-	**18**	<4	-	<0.4	-	**99**	-	**24**	-	**100**	-	**0.6**	-	**9**	-	**76**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329B	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	**2**	**1.4**	-	**0.2**	-	**0.3**	-	**3.7**	**5**	-	**2**	-	**230**	**110**	**69**	-	**1,200**	**57**	**11**	**82**	**13**	-	**510**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**1.5 - 1.6**	**Fill**	**14 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	<4	-	**7.4**	-	**31**	-	**18**	-	**150**	**19**	**16**	**140**	**5**	-	**140**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329B	**2 - 2.2**	**Fill**	**14 Aug 2023**	<1	**1.0**	-	**0.2**	-	**0.3**	-	**2.8**	<4	-	<0.4	-	**46**	-	**5**	-	**220**	-	**2.0**	-	**4**	-	**72**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**2.5 - 2.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**3.5 - 3.7**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**2**	-	**9**	-	**0.3**	-	**1**	-	**14**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329B	**4.3 - 4.5**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	**0.1**	-	**0.4**	**29**	-	**1**	-	**39**	-	**15**	-	**30**	-	**1.2**	-	**9**	-	**140**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**5 - 5.1**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	**0.1**	-	**0.2**	**45**	-	<0.4	-	**9**	-	**11**	-	**28**	-	**1.1**	-	**2**	-	**65**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329B	**5.2 - 5.4**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**11**	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**6.8 - 7**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**22**	-	<0.4	-	**59**	-	**2**	-	**4**	-	<0.1	-	**1**	-	**48**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**0.1 - 0.2**	**Fill**	**15 Aug 2023**	<1	**1.2**	-	<0.1	-	<0.1	-	**1.2**	<4	-	**0.6**	-	**61**	-	**27**	-	**320**	-	**3.8**	-	**11**	-	**120**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**0.5 - 0.7**	**Fill**	**15 Aug 2023**	<1	**1**	-	**0.2**	-	**0.4**	-	**3.4**	<4	-	**2**	-	**190**	**72**	**86**	-	**1,400**	**150**	**13**	**84**	**11**	-	**580**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C/PACM2	**1**	**Material**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**1.5 - 1.7**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	**0.09**	<4	-	<0.4	-	**12**	-	**8**	-	**40**	-	**0.4**	-	**2**	-	**71**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329C	**2.3 - 2.5**	**Fill**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**3**	-	<0.1	-	<1	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**3.3 - 3.5**	**Fill**	**15 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	**5**	-	<0.4	-	**34**	-	**59**	-	**240**	-	**1.3**	-	**5**	-	**97**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**4.1 - 4.3**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**3**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**4.6 - 4.8**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**23**	-	<0.4	-	**12**	-	<1	-	**3**	-	<0.1	-	<1	-	**47**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**5.1 - 5.3**	**Natural**	**15 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**5.6 - 5.8**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**12**	-	<0.4	-	**3**	-	**1**	-	**5**	-	**0.2**	-	**1**	-	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**6.8 - 7**	**Natural**	**15 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	<1	-	<1	-	<0.1	-	<1	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<1	**0.9**	-	**0.2**	-	**0.3**	-	**2.3**	<4	-	**2**	-	**200**	**34**	**57**	-	**1,000**	**65**	**12**	**0.55**	**18**	-	**290**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329D	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	**0.2**	-	**0.3**	<4	-	<0.4	-	**92**	-	**35**	-	**200**	-	**5.8**	**0.3**	**70**	-	**170**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**0.9 - 1.1**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**61**	-	**24**	-	**360**	-	**0.7**	-	**3**	-	**75**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**1.9 - 2.1**	**Fill**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**6**	-	**3**	-	**25**	-	**0.2**	-	**2**	-	**80**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
329D	**2.4 - 2.6**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**2.9 - 3.1**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**3.4 - 3.6**	**Natural**	**14 Aug 2023**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**4 - 4.2**	**Natural**	**14 Aug 2023**	**6**	**6.2**	-	<0.1	-	<0.1	-	**6.2**	**11**	-	<0.4	-	**11**	-	<1	-	**5**	-	<0.1	-	<1	-	**220**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**4.5 - 4.7**	**Natural**	**14 Aug 2023**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**5 - 5.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Proposed Industrial Development
49-61 Stephen Road, Banksmeadow

Table J1: Summary of Soil Laboratory Results

				PAH								Metals														Phenolics	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP	Phenolics Total	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7		45						
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																											
VMP, Allnex (2020)																																											
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																															3.6		13	
Sample ID	**Sample Depth**	**Matrix**	**Date**																																							
329D	**6 - 6.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.9 - 7**	**Natural**	**14 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**26**	-	<1	-	**2**	-	<0.1	-	<1	-	**8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	**0.1 - 0.3**	**Fill**	**15 Aug 2023**	<1	**0.3**	-	**0.2**	-	**0.3**	-	**2.2**	**6**	-	**3**	-	**120**	-	**180**	-	**430**	-	**7.2**	-	**36**	-	**530**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
330	**1 - 1.2**	**Fill**	**15 Aug 2023**	<1	**0.6**	-	**0.3**	-	**0.5**	-	**3.3**	**5**	-	**1**	-	**210**	**29**	**140**	-	**1,200**	**27**	**50**	**0.4**	**16**	-	**920**	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
330	**2 - 2.2**	**Fill**	**15 Aug 2023**	<1	**0.6**	-	**0.2**	-	**0.4**	-	**2.8**	**4**	-	**0.7**	-	**89**	**58**	**100**	-	**670**	**33**	**27**	**0.2**	**32**	-	**360**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
331	**0.1 - 0.3**	**Fill**	**28 Aug 2023**	<1	**0.3**	-	**0.1**	-	**0.2**	-	**2.0**	<4	**2**	**0.9**	**0.1**	**110**	**9**	**34**	**4**	**960**	**30**	**10**	**0.5**	**6**	<1	**200**	**22**	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
331	**1 - 1.2**	**Fill**	**28 Aug 2023**	<1	**0.4**	-	**0.3**	-	**0.6**	-	**4.2**	**4**	**2**	**1**	**0.2**	**290**	**42**	**86**	**17**	**1,000**	**200**	**23**	**1.5**	**20**	**3**	**540**	**64**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**2.5 - 2.7**	**Fill**	**28 Aug 2023**	**6**	**5.7**	-	**14**	-	**1.3**	-	**21**	<4	**3**	**2**	**0.4**	**55**	**3**	**46**	**6**	**460**	**26**	**5.2**	**3.5**	**120**	**32**	**3,800**	**59**	<5	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
331	**3 - 3.2**	**Fill**	**28 Aug 2023**	**8**	**5.3**	<0.1	**0.5**	<0.1	<0.1	<0.1	**6.1**	<4	**4**	**2**	**0.5**	**510**	**29**	**33**	**20**	**2,900**	**240**	**38**	**1.6**	**15**	**6**	**740**	**130**	-	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
331	**3.9 - 4.1**	**Fill**	**28 Aug 2023**	**5**	**11**	-	<0.1	-	<0.2	-	**11**	<4	<1	**2**	**0.8**	**36**	**3**	**57**	**7**	**140**	**9**	**3.5**	**0.4**	**3**	**1**	**510**	**450**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**4.8 - 5**	**Fill**	**28 Aug 2023**	**16**	**16**	**48**	**0.1**	<0.1	<0.1	<0.1	**16**	<4	-	<0.4	-	**4**	-	**8**	-	**31**	-	**5.8**	-	<1	-	**400**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	**0.1**	**0.3**	<0.1	<0.2
331	**5.2 - 5.4**	**Fill**	**28 Aug 2023**	**23**	**25**	<0.1	**0.1**	<0.1	<0.1	<0.1	**25**	<4	**3**	<0.4	<0.1	**5**	**1**	**14**	**2**	**37**	**3**	**3.4**	**0.09**	**2**	<1	**510**	**170**	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.2	<0.2	**0.4**	<0.2	<0.1	<0.2
331	**5.7 - 5.9**	**Fill**	**28 Aug 2023**	**32**	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**6.3 - 6.5**	**Natural**	**28 Aug 2023**	**4**	**2.6**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.6**	<4	**13**	<0.4	<0.1	**5**	**2**	<1	<1	**15**	**4**	**0.3**	<0.05	<1	<1	**31**	**17**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**6.8 - 7**	**Natural**	**28 Aug 2023**	-	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.3 - 7.5**	**Natural**	**28 Aug 2023**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.8 - 8**	**Natural**	**28 Aug 2023**	**2**	**1.3**	-	<0.1	-	<0.1	-	**1.3**	<4	-	<0.4	-	**3**	-	<1	-	**7**	-	**0.2**	-	<1	-	**16**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
331	**8.3 - 8.5**	**Natural**	**28 Aug 2023**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**8.8 - 9**	**Natural**	**28 Aug 2023**	**6**	**4.3**	-	<0.1	-	<0.1	-	**4.3**	<4	-	<0.4	-	**18**	-	**2**	-	**88**	-	**2.1**	-	<1	-	**52**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 1)	**8.8 - 9**	**Natural**	**28 Aug 2023**	**200**	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 2)	**8.8 - 9**	**Natural**	**28 Aug 2023**	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
332	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<1	**0.4**	-	**3.7**	-	**8.1**	-	**52**	<4	-	<0.4	-	**32**	-	**46**	-	**24**	-	**0.4**	-	**18**	-	**30**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	-	-	<1	-	<1	-
332	**1 - 1.2**	**Fill**	**29 Aug 2023**	<1	**1.2**	-	**0.3**	-	**0.5**	-	**3.9**	<4	**2**	**1**	**0.2**	**270**	**17**	**52**	**10**	**1,600**	**36**	**15**	**0.56**	**9**	<1	**300**	**24**	-	<1	<1	<1	<1	<1	<1	<1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2
333	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<1	**0.1**	-	**2.3**	-	**5.9**	-	**35**	**5**	-	<0.4	-	**41**	-	**49**	-	**46**	-	**0.7**	-	**26**	-	**59**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	-	-	<1	-	<1	-
333	**1 - 1.2**	**Fill**	**29 Aug 2023**	<1	**0.7**	-	**0.1**	-	**0.2**	-	**1.6**	<4	**3**	**2**	**0.1**	**180**	**14**	**68**	**6**	**1,000**	**76**	**20**	**0.86**	**12**	**1**	**380**	**23**	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
333	**1.5 - 1.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	**5**	-	**0.4**	-	**78**	-	**44**	-	**350**	-	**33**	-	**7**	-	**180**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2 - 2.2**	**Fill**	**29 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	<1	<0.4	**0.1**	**2**	<1	**3**	<1	**140,000**	**31,000**	**0.8**	**0.08**	<1	**1**	**7**	**9**	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 1)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**110,000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 2)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**53,000**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2.4 - 2.6**	**Fill**	**29 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	**4**	<0.4	**0.4**	**66**	**33**	**19**	**0.012**	**1,000**	**230**	**0.3**	**0.05**	**13**	**5**	**82**	**42**	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
333	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	<1	**0.2**	-	<0.1	-	<0.1	-	**0.2**	**5**	**4**	<0.4	**1.3**	**130**	**35**	**25**	**0.004**	**620**	**370**	**0.7**	<0.05	**3**	**4**	**60**	**250**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	<4	**5**	<0.4	<0.1	**5**	**2**	**2**	<0.001	**36**	**2**	<0.1	<0.05	<1	<1	**2**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**5.8 - 6**	**Natural**	**29 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	**5**	-	<0.4	-	**9**	-	**1**	-	**83**	-	**0.1**	-	<1	-	**120**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**7.3 - 7.5**	**Natural**	**29 Aug 2023**	<1	-	-	-	-	-	-	-	<4	**2**	<0.4	<0.1	<1	<1	<1	<0.001	**5**	**2**	<0.1	<0.05	<1	<1	**2**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<1	**0.4**	-	**1.5**	-	**4.4**	-	**29**	<4	-	<0.4	-	**15**	-	**73**	-	**27**	-	**0.3**	-	**16**	-	**49**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	-	-	<1	-	<1	-
334	**2 - 2.2**	**Fill**	**29 Aug 2023**	<1	<0.1	-	<0.1	-	**0.1**	-	**0.2**	**6**	-	**0.8**	-	**60**	-	**1,900**	-	**390**	-	**47**	-	**24**	-	**640**	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
334	**2.5 - 2.7**	**Fill**	**29 Aug 2023**	**1**	**1.2**	<0.1	**1.1**	<0.1	**1.7**	<0.1	**11**	<4	-	<0.4	-	**11**	-	**19**	-	**79**	-	**28**	-	**10**	-	**110**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**3 - 3.2**	**Fill**	**29 Aug 2023**	<1	**0.5**	-	**0.1**	-	**0.1**	-	**1.0**	**8**	**4**	<0.4	<0.1	**300**	**40**	**37**	**0.007**	**1,300**	**240**	**1.6**	**0.06**	**14**	**7**	**170**	**45**	<5	-	-	-	-	-	-	-	<0.1	<0.1	-	-	<0.1	-	<0.1	-
334	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	**18**	**17**	**1.7**	**1.1**	<0.1	**0.6**	<0.1	**22**	<4	**11**	<0.4	<0.1	**41**	**4**	**31**	**20**	**290**	**30**	**0.6**	**0.1**	**3**	**1**	**61**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**6 - 6.2**	**Natural**	**29 Aug 2023**	<1	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	<4	**3**	<0.4	<0.1	**44**	**8**	**2**	<1	**240**	**39**	**0.2**	<0.05	<1	<1	**16**	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**6.8 - 7**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	<0.4	-	**11**	-	<1	-	**59**	-	<0.1	-	<1	-	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**7.3 - 7.5**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	<0.4	-	**52**	-	**2**	-	**280**	-	**0.3**	-	<1	-	**17**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	<1	<0.1	-	**0.2**	-	**0.9**	-	**5.4**	<4	-	<0.4	-	**2**	-	**21**	-	**13**	-	**0.2**	-	**4**	-	**15**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
335	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**3**	-	<0.1	-	<1	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**1.1 - 1.3**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**9**	-	<0.1	-	<1	-	**6**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	<1	-	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	**2**	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD6/20230824^	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**5.7 - 5.9**	**Natural**	**24 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	**0.2 - 0.3**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	**0.8**	-	**17**	-	**13**	-	**150**	-	**0.1**	-	**3**	-	**100**	-	<5	-	-	-	-	-	-	-	**1.7**	<0.1	<0.1	-	-	<0.1	-	<0.1	-
336	**0.4 - 0.5**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**4**	-	<0.1	-	<1	-	**4**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	**0.1**	-	-	-	-	-	-	-	-
336	**0.6 - 0.7**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	<1	-	**2**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	**1.1 - 1.2**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**7**	-	<0.1	-	<1	-	**8**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	**1.4 - 1.5**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**3**	-	<0.1	-	<1	-	**5**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
336	**2.4 - 2.6**	**Fill**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**1**	-	**4**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	**2.7 - 2.9**	**Natural**	**24 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**12**	-	**15**	-	**88**	-	<0.1	-	**20**	-	**32**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
337	**0.5 - 0.7**	**Fill**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	**2**	-	**8**	-	<0.1	-	<1	-	**4**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**2.4 - 2.6**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	<1	-	**2**	-	<0.1	-	**1**	-	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**4.8 - 5**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**1**	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**6.8 - 7**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230825*	**6.8 - 7**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**7.8 - 8**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230825^	**7.8 - 8**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**5**	-	<0.1	-	<1	-	**3**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
338	**1 - 1.2**	**Fill**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**4**	-	<0.1	-	<1	-	**3**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**2.1 - 2.3**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	**1**	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**4.8 - 5**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**5.8 - 6**	**Natural**	**25 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	<1	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**6.8 - 7**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**7.8 - 8**	**Natural**	**25 Aug 2023**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338 (Retest 1)~	**7.8 - 8**	**Natural**	**25 Aug 2023**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338 (Retest 2)	**7.8 - 8**	**Natural**	**25 Aug 2023**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230825*	**7.8 - 8**	**Natural**	**25 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	**18**	-	**4**	-	<0.1	-	**3**	-	**5**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
339	**1 - 1.2**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**4**	-	<1	-	**2**	-	<0.1	-	**2**	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**1.6 - 1.8**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**2.8 - 3**	**Natural**	**28 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**4.8 - 5**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230828^	**4.8 - 5**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**5.8 - 6**	**Natural**	**28 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**7.8 - 8**	**Natural**	**28 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230828*	**7.8 - 8**	**Natural**	**28 Aug 2023**	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	**0.3 - 0.5**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**3**	-	**28**	-	**3**	-	<0.1	-	**4**	-	**4**	-	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	<0.1	-
340	**0.8 - 1**	**Fill**	**28 Aug 2023**	<1	<0.1	-	**0.1**	-	<0.1	-	**0.1**	<4	-	<0.4	-	**4**	-	**11**	-	**7**	-	<0.1	-	**23**	-	**7**	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	**1.1 - 1.3**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	**2**	-	<0.1	-	<1	-	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PAH								Metals															Phenolics Total	PCB								OCP							
				Naphthalene (as VOC)	Naphthalene (asPAH)	Naphthalene (as PAH)- ASLP	Phenanthrene	Phenanthrene - ASLP	Pyrene	Pyrene - ASLP	PAHs (Sum of positives)	Arsenic	Arsenic - ASLP	Cadmium	Cadmium - ASLP	Chromium	Chromium - ASLP	Copper	Copper - ASLP	Lead	Lead - ASLP	Mercury	Mercury - ASLP	Nickel	Nickel - ASLP	Zinc	Zinc - ASLP		Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Aldrin	Dieldrin	Aldrin - ASLP	Dieldrin - ASLP	a-BHC	a-BHC - ASLP	b-BHC	b-BHC - ASLP
				mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	4	1	0.4	0.1	1	1	1	1	1	1	0.1	0.05	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2
NEPC(2013) HILs for Comm/Ind D, Soil				11000	11000						4,000	3,000		900		3,600		240,000		1,500		730		6,000		400,000		240,000								7		45					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m				NL	NL																																					
NEPC (2013) Management Limits Comm/Ind, Sand																																										
VMP, Allnex (2020)																																										
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5									23,000																																		
Sample ID	**Sample Depth**	**Matrix**	**Date**																																									
340	**2.8 - 3**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	<1	-	<1	-	<1	-	<0.1	-	<1	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	**3.6 - 3.8**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**1**	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	<1	**0.4**	-	**0.2**	-	**1.2**	-	**1.2**	<4	<1	**1**	**0.2**	**420**	**89**	**58**	**5**	**1,000**	**170**	**6.7**	**0.82**	**63**	**1**	**220**	**30**	<5	<1	<1	<1	<1	<1	<1	<1	**0.2**	<0.1	<0.1	-	-	<0.1	-	<0.1	-
341	**0.7 - 0.9**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	<0.4	-	**170**	-	**40**	-	**320**	-	**2.1**	-	**89**	-	**99**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**1.2 - 1.4**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	<4	-	<0.4	-	**5**	-	**3**	-	**36**	-	<0.1	-	<1	-	**14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**1.7 - 1.9**	**Fill**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**10**	-	**24**	-	**8**	-	<0.1	-	**1**	-	**9**	-	-	<10	<10	<10	<10	<10	<10	<10	**7.0**	<0.1	<0.1	-	-	<0.1	-	<0.1	-
341	**3.2 - 3.4**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**2**	-	<1	-	**2**	-	<0.1	-	**1**	-	**3**	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-
341	**5.8 - 6**	**Natural**	**28 Aug 2023**	<1	<0.1	-	<0.1	-	<0.1	-	<0.05	<4	-	<0.4	-	**1**	-	<1	-	<1	-	<0.1	-	<1	-	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230828*	**5.8 - 6**	**Natural**	**28 Aug 2023**	<1	<0.5	-	<0.5	-	<0.5	-	<0.5	<5	-	<1	-	<2	-	<5	-	<5	-	<0.1	-	<2	-	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT101	**0.15 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT102	**0.13 - 0.2**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT103	**0.03 - 0.1**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT104	**0.18 - 0.25**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT105	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT106	**0.15 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT107	**0.16 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT108	**0.2 - 0.3**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT109	**0.17 - 0.3**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT110	**0.17 - 0.3**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT111	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT112	**0.17 - 0.3**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT113	**0.15 - 0.25**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT114	**0.2 - 0.3**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT115	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT116	**0.09 - 0.2**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT117	**0.17 - 0.3**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT118	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT119	**0.16 - 0.25**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT120	**0.13 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

^ : Intra-laboratory replicate listed directly below the primary.

* : Inter-laboratory replicate listed directly below the primary.

LRL : Laboratory reporting limit.

SAC : Refer to Appendix H for additional SAC informatic

: Criteria in line also includes NEMP (2020) PFAS and CRC Care (2011) direct contact criteria.

~ : Retest of sample 33/7.8-8 also included analysis of other analytes.

- Sample depth relative to current site levels.

Table J1: Summary of Soil Laboratory Results

				OCP																																OPP		PFAS					
				Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
				mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil					530											3,600			2,000				100						50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																													
NEPC (2013) Management Limits Comm/Ind, Sand																																													
VMP, Allnex (2020)																																													
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5										93									4,900								25				3.3													
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
201	**1.9 - 2**	**Fill**	**06 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	**12 - 12.3**	**Natural**	**06 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.15 - 0.25**	**Fill**	**01 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
202	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230901^	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.8 - 1**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230901^	**0.8 - 1**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230901^	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**5.5 - 5.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**7.5 - 7.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**10.5 - 10.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**18 - 18.45**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**19.5 - 19.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**0.25 - 0.35**	**Fill**	**05 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
203	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230905*	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230905*	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**2 - 2.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230905*	**2 - 2.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**4 - 4.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5 - 5.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230905^	**5 - 5.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5.5 - 5.95**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**8 - 8.35**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**14 - 14.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**17 - 17.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**18.5 - 18.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**0.5 - 0.7**	**Fill**	**04 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
204	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230904^	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**2 - 2.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230904^	**2 - 2.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230904^	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**5 - 5.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230904^	**5 - 5.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**8 - 8.38**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**17 - 17.45**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230904^	**17 - 17.45**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**20 - 20.4**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**9 - 9.3**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**10 - 10.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**13 - 13.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**17 - 17.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**0.15 - 0.25**	**Fill**	**08 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
206	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230908^	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230908^	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**2 - 2.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230908^	**2 - 2.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5 - 5.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230908^	**5 - 5.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5.5 - 5.95**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**9.5 - 9.8**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**16.5 - 16.95**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**14 - 14.45**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**15 - 15.45**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**20 - 20.38**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**0.2 - 0.4**	**Fill**	**30 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
208	**1 - 1.45**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208/PACM3	**1.45**	**Material**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**1.5 - 1.7**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230830^	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**5.5 - 5.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**7.5 - 7.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**8.5 - 8.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**13.5 - 13.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**15.5 - 15.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**0.5 - 0.7**	**Fill**	**11 Sep 2023**	<0.1	**0.2**	-	-	<0.1	-	**2.8**	-	**11**	-	**4.6**	-	**19**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
209	**1 - 1.45**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209/PACM4	**2**	**Material**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**2 - 2.2**	**Fill**	**11 Sep 2023**	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	**3.6**	**0.3**	**19**	**2**	**6.1**	**0.5**	**29**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	-	-	-	-
209	**2.5 - 2.9**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**3.5 - 3.7**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**4 - 4.45**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5 - 5.2**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5.5 - 5.95**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**6.5 - 6.95**	**Natural**	**11 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	**0.4**	-	<0.1	-	**0.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
209	**8 - 8.3**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**9 - 9.45**	**Natural**	**11 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	**0.4**	-	<0.1	-	**0.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
209	**11 - 11.3**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**15 - 15.2**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**0.5 - 0.7**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**2 - 2.2**	**Fill**	**12 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	**0.7**	-	**3.5**	-	**0.5**	-	**4.8**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
210	**3.5 - 3.7**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**4 - 4.2**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

					OCP																														OPP		PFAS					
					Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
					mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L
LRL					0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil						530											3,600		2,000					100						50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																													
NEPC (2013) Management Limits Comm/Ind, Sand																																													
VMP, Allnex (2020)																																													
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5											93									4,900								25				3.3												
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
BD4/20230912^	**4 - 4.2**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**5.5 - 5.8**	**Fill**	**12 Sep 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**1.2**	<0.2	**2.7**	<0.2	**1.0**	<0.2	**4.9**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1			-	-	-	-	-	-
210	**5.8 - 5.95**	**Natural**	**12 Sep 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
210	**7 - 7.45**	**Natural**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**8.5 - 8.95**	**Natural**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**13.5 - 13.6**	**Natural**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
301	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
301	**1 - 1.2**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**0.8 - 1**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
302	**2.3 - 2.5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**2.8 - 3**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**4.8 - 5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**6.8 - 7**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**9.8 - 10**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**11.5 - 11.6**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	**0.0002**	-
303	**1.2 - 1.4**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
303	**1.7 - 1.9**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
303	**2.1 - 2.3**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**2.6 - 2.8**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
303	**3 - 3.2**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**4.8 - 5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	**0.0001**	-
BD2/20230817*	**4.8 - 6**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**0.2 - 0.3**	**Fill**	**17 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
304	**0.3 - 0.5**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**1.7 - 1.9**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**2.8 - 3**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**3.8 - 4**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**4.3 - 4.5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**4.8 - 5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230817*	**4.8 - 5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**5.3 - 5.5**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	**5.8 - 6**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**0.2 - 0.3**	**Fill**	**22 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
305	**1 - 1.2**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**2 - 2.2**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**3.8 - 4**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230822*	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
306	**0.8 - 1**	**Fill**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
306	**1.2 - 1.4**	**Fill**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	**3.8 - 4**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
307	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
307	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**1.9 - 2.1**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**4.8 - 5**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**5.8 - 6**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	**6.8 - 7**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230825^	**6.8 - 7**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	**0.1**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	**0.0004**	-
308	**1 - 1.2**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**1.7 - 1.9**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
308	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0003**	**0.01**	**0.0003**	**0.01**	**0.0007**	**0.03**
308	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**6.8 - 7**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
308	**9.8 - 10**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	**10.8 - 11**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
309	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**0.9 - 1.1**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**1.8 - 2**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**2.8 - 3**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**4.8 - 5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**5.8 - 6**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	**7.8 - 8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
310	**0.8 - 1**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
310	**1.6 - 1.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**3.6 - 3.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**4.6 - 4.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230816^	**5.6 - 5.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**6.6 - 6.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**7.6 - 7.8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**0.2 - 0.3**	**Fill**	**10 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
311	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
311	**2 - 2.2**	**Fill**	**10 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
311	**3.4 - 3.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
311	**4.4 - 4.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
311	**5.4 - 5.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
311	**6.4 - 6.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**7.4 - 7.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	**8.4 - 8.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
312	**0.15 - 0.25**	**Fill**	**23 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0002**	-	**0.0002**	-	**0.0002**	-
312/PACM3	**0.2**	**Material**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				OCP																																		OPP		PFAS					
				Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
				mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil					530											3,600			2,000				100					50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																													
NEPC (2013) Management Limits Comm/Ind, Sand																																													
VMP, Allnex (2020)																																													
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5										93									4,900								25				3.3														
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
312	**0.4 - 0.6**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**1.5 - 1.7**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
312	**1.8 - 2**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**3.8 - 4**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**4.8 - 5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0011**	**0.02**	**0.0011**	**0.02**	**0.0011**	**0.02**
BD1/20230823^	**4.8 - 5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0016**	-	**0.0016**	-	**0.0022**	-
312	**5.8 - 6**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**6.8 - 7**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
312	**10.8 - 11**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
313	**0.4 - 0.5**	**Fill**	**23 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
313	**0.8 - 1**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
313	**1.4 - 1.6**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
313	**2.8 - 3**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**3.8 - 4**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.3 - 4.5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.8 - 5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**5.3 - 5.5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
313	**5.8 - 6**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.3 - 6.5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.8 - 7**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**7.8 - 8**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	**0.0003**	-
313	**8.8 - 9**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**0.15 - 0.25**	**Fill**	**22 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
314	**0.6 - 0.8**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
314	**1.7 - 1.9**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**2 - 2.2**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
314	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**5.3 - 5.5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
314	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.3 - 6.5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.8 - 7**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.3 - 7.5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.8 - 8**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.011**	**0.34**	**0.011**	**0.32**	**0.012**	**0.35**
315	**0.8 - 1**	**Fill**	**11 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
315	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
315	**2.8 - 3**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230811^	**2.8 - 3**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**3.8 - 4**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
315	**4.8 - 5**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
315	**5.3 - 5.5**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
315	**5.8 - 6**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
315	**6.3 - 6.5**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
315	**6.8 - 7**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**7.8 - 8**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	-	-	-	-	-	-
316	**0.5 - 0.7**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**1.4 - 1.6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**3.8 - 4**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230822^	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**6.8 - 7**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**9.8 - 10**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**0.2 - 0.3**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	-	-	-	-	-	-
317	**1 - 1.2**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-
317	**1.7 - 1.9**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**3.8 - 4**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**4.8 - 5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**5.8 - 6**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**6.8 - 7**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**7.8 - 8**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**8.8 - 9**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**9.8 - 10**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**1 - 1.2**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	-	-	-	-	-	-
318	**1.5 - 1.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**2.5 - 2.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**3.5 - 3.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.5 - 4.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.8 - 5**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**5.8 - 6**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**6.8 - 7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**0.25 - 0.35**	**Fill**	**10 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	<0.0001	-	**0.0009**	-	**0.0030**	-
319	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	<0.01	**0.0009**	**0.04**	**0.0061**	**0.32**
319	**1.1 - 1.3**	**Fill**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	**0.0005**	-	**0.0005**	-
319	**1.4 - 1.6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
319	**2.8 - 3**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
319	**3.8 - 4**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230810^	**3.8 - 4**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**4.8 - 5**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0003**	<0.01	**0.0003**	<0.01	**0.0003**	<0.01
319	**5.8 - 6**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
319	**6.8 - 7**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**7.8 - 8**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
320	**0.1 - 0.3**	**Fill**	**18 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**2.8**	**0.6**	**1.8**	**0.6**	**27**	**7.8**	**32**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	-	-	-	-	-
320	**0.4 - 0.6**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320A	**0.15 - 0.25**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	<0.2	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	-	-	-	-	-	-
320A	**0.5 - 0.6**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320B	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320B	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

					OCP																																OPP		PFAS					
					Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
					mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L
LRL					0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil						530											3,600		2,000					100					50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																													
NEPC (2013) Management Limits Comm/Ind, Sand																																													
VMP, Allnex (2020)																																													
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5											93									4,900								25				3.3													
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
320B	**0.8 - 1**	**Natural**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	**1.8 - 2**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**0 - 0.1**	**Fill**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**0.3 - 0.4**	**Fill**	**18 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.2**	-	**1.1**	-	<0.1	-	**1.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
320D	**0.5 - 0.7**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	**1.8 - 2**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230818*	**1.8 - 2**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0002**	-	**0.0002**	-	**0.0002**	-
321	**1 - 1.2**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0001**	-	**0.0001**	-	**0.0001**	-
321	**2 - 2.2**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0002**	-	**0.0002**	-	**0.0002**	-
321	**4 - 4.2**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
321	**5 - 5.2**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
321	**6 - 6.2**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0002**	**0.01**	**0.0002**	**0.01**	**0.0004**	**0.02**
321	**7 - 7.2**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
322	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**1.8 - 2**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	**3 - 3.2**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**1 - 1.2**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**1.8 - 2**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**2.3 - 2.5**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230816^	**4.3 - 4.5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
322B	**0.5 - 0.7**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**1.5 - 1.7**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**2 - 2.2**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	**3 - 3.2**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**0.2 - 0.4**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
322C	**0.6 - 0.8**	**Fill**	**16 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
322C	**1.2 - 1.4**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**1.5 - 1.7**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
322C	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230816^	**2.5 - 2.7**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	**3.3 - 3.5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
322C	**4.8 - 5**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0002**	<0.01	**0.0002**	<0.01	**0.0002**	<0.01
322C	**5.8 - 6**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0006**	<0.01	**0.0004**	<0.01	**0.0006**	<0.01
322C	**7.8 - 8**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
322D	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
322D	**0.7 - 0.9**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
322D	**1.7 - 1.9**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	**2.2 - 2.4**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	**2.6 - 2.8**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**4.1**	**3.3**	**9.7**	**14**	**0.4**	**1**	**14**	**2.1**	<0.1	<0.1	**2.1**	**4.3**	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	-	-	-	-	-	-
323	**0.7 - 0.9**	**Fill**	**24 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-
323	**2.1 - 2.3**	**Fill**	**24 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	**0.1**	-	<0.1	-	**0.1**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
323	**2.5 - 2.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230824*	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**7.1**	-	**3.4**	-	**0.9**	-	**11**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
324	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
324	**1.8 - 2**	**Natural**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
BD2/20230821*	**1.8 - 2**	**Natural**	**21 Aug 2023**	<0.05	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	<0.2	-	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.2	-	-	-	-	-	-	-	-	-
325	**0.2 - 0.4**	**Fill**	**21 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**11**	**0.3**	**13**	<0.2	**58**	**0.6**	**82**	<0.1	<0.1	<0.1	**0.4**	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
325	**0.8 - 1**	**Natural**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.0001	-	<0.0001	-	<0.0001	-
325	**3.8 - 4**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0002**	<0.01	**0.0004**	<0.01	**0.0013**	**0.02**
325	**4.8 - 5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0003**	-	**0.0003**	-	**0.0003**	-
BD1/20230821^	**4.8 - 5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0013**	**0.04**	**0.0013**	**0.04**	**0.0013**	**0.04**
325	**6.8 - 7**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
326	**0.15 - 0.25**	**Fill**	**21 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**12**	**2.6**	**12**	**3.2**	**46**	**3.4**	**70**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	-	-	-	-	-	-
326	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**13**	**2.8**	**7.3**	**2**	**61**	**14**	**82**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	<0.0001	-	<0.0001	-	<0.0001	-
326	**1 - 1.2**	**Natural**	**21 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**0.1**	**1**	<0.1	**0.6**	<0.1	**0.4**	**0.1**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	<0.0001	-	<0.0001	-	<0.0001	-
326	**3.3 - 3.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
326	**3.8 - 4**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**4.3 - 4.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**4.8 - 5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**5.3 - 5.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
326	**5.8 - 6**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**6.3 - 6.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**6.8 - 7**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**7.3 - 7.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**7.8 - 8**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**8.3 - 8.5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	**8.8 - 9**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**0.2 - 0.4**	**Fill**	**18 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.4**	-	<0.1	-	**0.2**	-	**0.5**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0022**	**0.07**	**0.0012**	**0.03**	**0.0039**	**0.1**
327	**0.5 - 0.7**	**Fill**	**18 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	**0.0011**	-	<0.0001	-	**0.0011**	-
327	**1.8 - 2**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
327	**4.8 - 5**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0005**	-	**0.0005**	-	**0.0005**	-
327	**5.8 - 6**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230818*	**5.8 - 6**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	**6.8 - 7**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0007**	**0.02**	**0.0006**	**0.02**	**0.0007**	**0.02**

Table J1: Summary of Soil Laboratory Results

				OCP																																OPP		PFAS					
				Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
				mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil					530											3,600		2,000					100						50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																												
NEPC (2013) Management Limits Comm/Ind, Sand																																												
VMP, Allnex (2020)																																												
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5										93									4,900								25				3.3													
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
328	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.2**	-	**0.1**	-	**0.2**	-	**0.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328	**0.4 - 0.6**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.1**	-	<0.1	-	<0.1	-	**0.1**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328	**0.8 - 1**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328	**1.3 - 1.5**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	**2.8 - 3**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**0.1 - 0.3**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**1**	-	**0.7**	-	**1.7**	-	**3.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328A	**0.5 - 0.7**	**Fill**	**21 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328A	**1.5 - 1.7**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**2.4 - 2.6**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**3.3 - 3.5**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**3.8 - 4**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	**4.1 - 4.3**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.8**	-	**1.2**	-	**1.0**	-	**3.0**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
328B	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**2.7 - 2.9**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**3.1 - 3.3**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**3.5 - 3.6**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**4.8 - 5**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**7.8 - 8**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**0.1 - 0.3**	**Fill**	**24 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**1**	-	**0.6**	-	**0.4**	-	**2.0**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0011**	<0.01	**0.0016**	**0.03**	**0.013**	**0.26**
328C	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	**0.001**	-	**0.0014**	-	**0.0033**	-
328C	**1.5 - 1.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0005**	<0.01	**0.0008**	<0.01	**0.0023**	**0.03**
328C	**2.6 - 2.8**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**3.2 - 3.4**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**4.8 - 5**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	**0.0001**	-
328C	**6.8 - 7**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	**7.8 - 8**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230824*	**7.8 - 8**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**0.25 - 0.35**	**Fill**	**11 Aug 2023**	**0.1**	**0.2**	<0.2	<0.2	<0.1	<0.2	**32**	**3.7**	**25**	**2.4**	**14**	**2.3**	**71**	<0.1	<0.1	<0.1	**1**	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	-	-	-	-	-	-
328D	**0.5 - 0.7**	**Fill**	**11 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.1**	-	**0.1**	-	<0.1	-	**0.3**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
328D	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**2.4 - 2.6**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	**3 - 3.2**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**0 - 0.1**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329/PACM1	**Surface**	**Material**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**2.3**	<0.2	**3.4**	<0.2	**2.7**	**0.3**	**8.5**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<LRL	-	-	-	-	-	-
329	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**1 - 1.2**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
329	**2.3 - 2.5**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**2.8 - 3**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**3.8 - 4**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**4.1 - 4.3**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**4.6 - 4.8**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**5 - 5.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6 - 6.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	**6.8 - 7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
329A	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**1.3 - 1.5**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**1.1**	-	**4.8**	-	**0.9**	-	**6.7**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
329A	**1.8 - 2**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**2.8 - 3**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**3.3 - 3.5**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	**3.8 - 4**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**0.1 - 0.2**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.2**	-	**0.2**	-	**0.3**	-	**0.7**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0033**	**0.02**	**0.0034**	**0.03**	**0.0066**	**0.03**
329B	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**1.5 - 1.6**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.2**	-	**3.2**	-	<0.1	-	**3.4**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	**0.0083**	**0.22**	**0.0085**	**0.23**	**0.0097**	**0.23**
329B	**2 - 2.2**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	**2.5 - 2.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0007**	-	**0.0008**	-	**0.0016**	-
329B	**3.5 - 3.7**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	**0.0002**	-	**0.0004**	-	**0.0006**	-
329B	**4.3 - 4.5**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0011**	**0.07**	**0.0011**	**0.06**	**0.0014**	**0.08**
329B	**5 - 5.1**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	**0.4**	-	**0.1**	-	**0.5**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
329B	**5.2 - 5.4**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0002**	<0.01	**0.0002**	<0.01	**0.0002**	<0.01
329B	**6.8 - 7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	<0.0001	-
329C	**0.1 - 0.2**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**0.5 - 0.7**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C/PACM2	**1**	**Material**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**1.5 - 1.7**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
329C	**2.3 - 2.5**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**3.3 - 3.5**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**4.1 - 4.3**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**4.6 - 4.8**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**5.1 - 5.3**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**5.6 - 5.8**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	**6.8 - 7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**0.1 - 0.3**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**2.0**	-	**4.4**	-	**2.9**	-	**9.2**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<LRL	-	-	-	-	-	-
329D	**0.5 - 0.7**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**0.9 - 1.1**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**1.9 - 2.1**	**Fill**	**14 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
329D	**2.4 - 2.6**	**Fill**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**2.9 - 3.1**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**3.4 - 3.6**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**4 - 4.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**4.5 - 4.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**5 - 5.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**5.5 - 5.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				OCP																																OPP		PFAS					
				Chlordane (cis)	Chlordane (trans)	Chlordane (cis) - ASLP	Chlordane (trans) - ASLP	d-BHC	d-BHC - ASLP	4,4-DDE	4,4-DDE - ASLP	DDD	DDD - ASLP	DDT	DDT - ASLP	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endosulfan I - ASLP	Endosulfan II - ASLP	Endosulfan sulphate - ASLP	Endrin	Endrin - ASLP	Endrin aldehyde	Endrin aldehyde - ASLP	g-BHC (Lindane)	g-BHC (Lindane) - ASLP	Heptachlor	Heptachlor - ASLP	Heptachlor epoxide	Heptachlor epoxide - ASLP	Hexachlorobenzene	Hexachlorobenzene - ASLP	Methoxychlor	Methoxychlor - ASLP	Mirex	Chlorpyrifos	Toal OPP	PFHxS and PFOS	PFHxS and PFOS - ASLP	PFOS + PFOA	PFOS + PFOA - ALSP	Sum of PFAS	Sum of PFAS - ASLP
				mg/kg	mg/kg	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	µg/L	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L
LRL				0.05	0.05	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.05	0.05	0.05	0.05	0.2	0.2	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.05	0.2	0.1	0.2	0.1	0.1	LRL	0.0001	0.01	0.0001	0.01	0.0001	0.01
NEPC(2013) HILs for Comm/Ind D, Soil					530											3,600		2,000					100					50				80		2,500		100	2,000		20					
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																																												
NEPC (2013) Management Limits Comm/Ind, Sand																																												
VMP, Allnex (2020)																																												
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5										93									4,900								25				3.3													
Sample ID	**Sample Depth**	**Matrix**	**Date**																																										
329D	**6 - 6.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.9 - 7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	**0.1 - 0.3**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**1.2**	-	**3.3**	-	**1.8**	-	**6.2**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	**0.0027**	-	**0.0031**	-	**0.0088**	-
330	**1 - 1.2**	**Fill**	**15 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**2.2**	-	**10**	-	**3.9**	-	**16**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	**0.014**	-	**0.013**	-	**0.015**	-
330	**2 - 2.2**	**Fill**	**15 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**1.6**	<0.2	**6.7**	**0.7**	**1.6**	<0.2	**10**	<0.1	<0.1	<0.1	**0.2**	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	**0.017**	-	**0.016**	-	**0.018**	-
331	**0.1 - 0.3**	**Fill**	**28 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.8**	-	**1.8**	-	**2.6**	-	**5.3**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	**0.0050**	**0.03**	**0.0049**	**0.03**	**0.0053**	**0.03**
331	**1 - 1.2**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0055**	**0.12**	**0.0049**	**0.1**	**0.0057**	**0.12**
331	**2.5 - 2.7**	**Fill**	**28 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.7**	-	**1.4**	-	**1.2**	-	**3.3**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<LRL	**0.0004**	-	**0.0004**	-	**0.0004**	-
331	**3 - 3.2**	**Fill**	**28 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**0.6**	<0.2	**3.7**	<0.2	**0.2**	<0.2	**4.6**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	-	-	-	-	-	-
331	**3.9 - 4.1**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**4.8 - 5**	**Fill**	**28 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**3.2**	<0.2	**41**	<0.2	**1.8**	<0.2	**46**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	**0.0028**	-	**0.0011**	-	**0.0030**	-
331	**5.2 - 5.4**	**Fill**	**28 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**7.1**	<0.2	**78**	<0.2	**0.1**	<0.2	**85**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	**0.0018**	**0.01**	**0.0014**	<0.01	**0.0025**	**0.01**
331	**5.7 - 5.9**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**6.3 - 6.5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0003**	**0.02**	**0.0003**	**0.02**	**0.0003**	**0.02**
331	**6.8 - 7**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.3 - 7.5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.8 - 8**	**Natural**	**28 Aug 2023**	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	**0.2**	<0.2	**2.8**	<0.2	**1.7**	<0.2	**4.8**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	-	-	-	-	-	-
331	**8.3 - 8.5**	**Natural**	**28 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**0.4**	-	**5.7**	-	**1.4**	-	**7.5**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
331	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 1)	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 2)	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
332	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<1	<1	-	-	<1	-	<1	-	<1	-	<1	-	<1	<1	<1	<1	-	-	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1.0	<0.1	<LRL	**0.0025**	-	**0.0025**	-	**0.0028**	-
332	**1 - 1.2**	**Fill**	**29 Aug 2023**	<0.1	**0.1**	<0.2	<0.02	<0.1	<0.2	**2.7**	<0.2	**8.6**	<0.2	**7.0**	<0.2	**18**	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0..2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	<0.2	<0.1	-	-	**0.0054**	-	**0.0051**	-	**0.0054**	-
333	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<1	<1	-	-	<1	-	<1	-	<1	-	<1	-	<1	<1	<1	<1	-	-	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1.0	-	-	-	-	-	-	-	-	-
333	**1 - 1.2**	**Fill**	**29 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	**7.2**	-	**24**	-	**48**	-	**79**	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
333	**1.5 - 1.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 1)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 2)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2.4 - 2.6**	**Fill**	**29 Aug 2023**	<0.1	<0.1	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	-	-	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	<0.1	-	-	-	-	-	-	-	-	-
333	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**5.5 - 5.7

Table J1: Summary of Soil Laboratory Results

| | | |

Table J1: Summary of Soil Laboratory Results

				PFAS										Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
201	**1.9 - 2**	**Fill**	**06 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
201	**12 - 12.3**	**Natural**	**06 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.15 - 0.25**	**Fill**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
202	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230901^	**0.5 - 0.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.8 - 1**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230901^	**0.8 - 1**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230901^	**1.5 - 1.7**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**5.5 - 5.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**7.5 - 7.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**10.5 - 10.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**18 - 18.45**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**19.5 - 19.95**	**Natural**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**0.25 - 0.35**	**Fill**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
203	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230905*	**0.6 - 0.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230905*	**1.5 - 1.7**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**2 - 2.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230905*	**2 - 2.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**4 - 4.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5 - 5.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230905^	**5 - 5.2**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**5.5 - 5.95**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**8 - 8.35**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**14 - 14.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**17 - 17.45**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**18.5 - 18.8**	**Natural**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**0.5 - 0.7**	**Fill**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
204	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230904^	**1.5 - 1.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**2 - 2.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230904^	**2 - 2.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230904^	**4.5 - 4.7**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**5 - 5.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230904^	**5 - 5.2**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**8 - 8.38**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**17 - 17.45**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230904^	**17 - 17.45**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**20 - 20.4**	**Natural**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**9 - 9.3**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**10 - 10.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**13 - 13.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	**17 - 17.45**	**Natural**	**07 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**0.15 - 0.25**	**Fill**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
206	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230908^	**0.5 - 0.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230908^	**1.5 - 1.7**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**2 - 2.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230908^	**2 - 2.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5 - 5.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230908^	**5 - 5.2**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**5.5 - 5.95**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**9.5 - 9.8**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**16.5 - 16.95**	**Natural**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**14 - 14.45**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**15 - 15.45**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	**20 - 20.38**	**Natural**	**31 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**0.2 - 0.4**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0098**	**0.0012**	-
208	**1 - 1.45**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208/PACM3	**1.45**	**Material**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**Present**
208	**1.5 - 1.7**	**Fill**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230830^	**2.3 - 2.5**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**5.5 - 5.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**7.5 - 7.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**8.5 - 8.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**13.5 - 13.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	**15.5 - 15.95**	**Natural**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**0.5 - 0.7**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	**0.8191**	**0.5526**	**0.0823**	**0.0106**	**-**
209	**1 - 1.45**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209/PACM4	**2**	**Material**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**Present**
209	**2 - 2.2**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0608**	**0.0084**	-
209	**2.5 - 2.9**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**3.5 - 3.7**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**4 - 4.45**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5 - 5.2**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**5.5 - 5.95**	**Fill**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**6.5 - 6.95**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**8 - 8.3**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**9 - 9.45**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**11 - 11.3**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
209	**15 - 15.2**	**Natural**	**11 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**0.5 - 0.7**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0008**	<0.001	-
210	**2 - 2.2**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0012**	<0.001	-
210	**3.5 - 3.7**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	<0.1		**0.0050**	<0.001	-
210	**4 - 4.2**	**Fill**	**12 Sep 2023**	-	-	-	-	-	-	-	-	-	-	**1.5928**	**1.1633**	-	<0.001	-

Table J1: Summary of Soil Laboratory Results

				PFAS											Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
BD4/20230912^	4 - 4.2	Fill	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	5.5 - 5.8	Fill	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	5.8 - 5.95	Natural	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	7 - 7.45	Natural	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	8.5 - 8.95	Natural	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	13.5 - 13.6	Natural	12 Sep 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
301	0.5 - 0.7	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
301	1 - 1.2	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	0.2 - 0.4	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	0.8 - 1	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
302	2.3 - 2.5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	2.8 - 3	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	4.8 - 5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230817*	4.8 - 5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	6.8 - 7	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	9.8 - 10	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	11.5 - 11.6	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	0.2 - 0.4	Fill	17 Aug 2023	<0.0001	-	**0.0002**	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
303	1.2 - 1.4	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
303	1.7 - 1.9	Fill	17 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
303	2.1 - 2.3	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	2.6 - 2.8	Fill	17 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
303	3 - 3.2	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	4.8 - 5	Natural	17 Aug 2023	<0.0001	-	**0.0001**	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
BD2/20230817*	4.8 - 6	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	0.2 - 0.3	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
304	0.3 - 0.5	Fill	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
304	1.7 - 1.9	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	2.8 - 3	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	3.8 - 4	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	4.3 - 4.5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	4.8 - 5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230817*	4.8 - 5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	5.3 - 5.5	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
304	5.8 - 6	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	0.2 - 0.3	Fill	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
305	1 - 1.2	Fill	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
305	2 - 2.2	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	3.8 - 4	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	4.8 - 5	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230822*	4.8 - 5	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	5.8 - 6	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	0.2 - 0.3	Fill	11 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
306	0.8 - 1	Fill	11 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
306	1.2 - 1.4	Fill	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	3.8 - 4	Natural	11 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
307	0.2 - 0.4	Fill	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	**0.0103**	-	<0.001	-
307	1.5 - 1.7	Fill	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0030**	<0.001	-
307	1.9 - 2.1	Natural	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	4.8 - 5	Natural	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	5.8 - 6	Natural	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	6.8 - 7	Natural	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230825^	6.8 - 7	Natural	25 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	0.2 - 0.4	Fill	22 Aug 2023	<0.0001	-	**0.0004**	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
308	1 - 1.2	Fill	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
308	1.7 - 1.9	Natural	22 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
308	4.8 - 5	Natural	22 Aug 2023	<0.0001	<0.01	**0.0003**	**0.02**	<0.0002	<0.02	<0.0001	<0.01	**0.0003**	**0.01**	-	-	-	-	-
308	5.8 - 6	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	6.8 - 7	Natural	22 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
308	9.8 - 10	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	10.8 - 11	Natural	22 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	0.2 - 0.4	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
309	0.5 - 0.7	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
309	0.9 - 1.1	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	1.2 - 1.4	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	1.8 - 2	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	2.8 - 3	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	4.8 - 5	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	5.8 - 6	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
309	7.8 - 8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	0.2 - 0.4	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
310	0.8 - 1	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
310	1.6 - 1.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	3.6 - 3.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	4.6 - 4.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	5.6 - 5.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230816^	5.6 - 5.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	6.6 - 6.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	7.6 - 7.8	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	0.2 - 0.3	Fill	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
311	0.5 - 0.7	Fill	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
311	2 - 2.2	Fill	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
311	3.4 - 3.6	Natural	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
311	4.4 - 4.6	Natural	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
311	5.4 - 5.6	Natural	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
311	6.4 - 6.6	Natural	10 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	7.4 - 7.6	Natural	10 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	8.4 - 8.6	Natural	10 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
312	0.15 - 0.25	Fill	23 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0002**	-	<0.1	**0.0057**	-	<0.001	-
312/PACM3	0.2	Material	23 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**Present**

Table J1: Summary of Soil Laboratory Results

				PFAS										Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
312	**0.4 - 0.6**	**Fill**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
312	**1.5 - 1.7**	**Fill**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
312	**1.8 - 2**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**3.8 - 4**	**Natural**	**23 Aug 2023**											-	-	-	-	-
312	**4.8 - 5**	**Natural**	**23 Aug 2023**	<0.0001	<0.01	<0.0001	**0.02**	<0.0002	<0.02	<0.0001	<0.01	**0.0011**	**0.02**	-	-	-	-	-
BD1/20230823^	**4.8 - 5**	**Natural**	**23 Aug 2023**	<0.0001	-	**0.0006**	-	<0.0002	-	<0.0001	-	**0.0016**	-	-	-	-	-	-
312	**5.8 - 6**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**6.8 - 7**	**Natural**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
312	**10.8 - 11**	**Natural**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
313	**0.4 - 0.5**	**Fill**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
313	**0.8 - 1**	**Fill**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
313	**1.4 - 1.6**	**Fill**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
313	**2.8 - 3**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**3.8 - 4**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.3 - 4.5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**4.8 - 5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**5.3 - 5.5**	**Natural**	**23 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
313	**5.8 - 6**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.3 - 6.5**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**6.8 - 7**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
313	**7.8 - 8**	**Natural**	**23 Aug 2023**	<0.0001	-	**0.0003**	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
313	**8.8 - 9**	**Natural**	**23 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**0.15 - 0.25**	**Fill**	**22 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
314	**0.6 - 0.8**	**Fill**	**22 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
314	**1.7 - 1.9**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
314	**2 - 2.2**	**Natural**	**22 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
314	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**5.3 - 5.5**	**Natural**	**22 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
314	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.3 - 6.5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**6.8 - 7**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.3 - 7.5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	**7.8 - 8**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**0.2 - 0.3**	**Fill**	**11 Aug 2023**	**0.0003**	**0.01**	<0.0001	<0.01	<0.0002	<0..02	**0.0009**	**0.04**	**0.01**	**0.3**	**3.2443**	-	**1.6754**	**0.3244**	-
315	**0.8 - 1**	**Fill**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**1.5 - 1.7**	**Fill**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**2.8 - 3**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230811^	**2.8 - 3**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**3.8 - 4**	**Natural**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**4.8 - 5**	**Natural**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**5.3 - 5.5**	**Natural**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**5.8 - 6**	**Natural**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**6.3 - 6.5**	**Natural**	**11 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
315	**6.8 - 7**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
315	**7.8 - 8**	**Natural**	**11 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**0.2 - 0.4**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
316	**0.5 - 0.7**	**Fill**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
316	**1.4 - 1.6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**3.8 - 4**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230822^	**4.8 - 5**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**5.8 - 6**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**6.8 - 7**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316	**9.8 - 10**	**Natural**	**22 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**0.2 - 0.3**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
317	**1 - 1.2**	**Fill**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
317	**1.7 - 1.9**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**3.8 - 4**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**4.8 - 5**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**5.8 - 6**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**6.8 - 7**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**7.8 - 8**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**8.8 - 9**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	**9.8 - 10**	**Natural**	**21 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**0.2 - 0.4**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
318	**1 - 1.2**	**Fill**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
318	**1.5 - 1.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**2.5 - 2.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**3.5 - 3.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.5 - 4.7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**4.8 - 5**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**5.8 - 6**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318	**6.8 - 7**	**Natural**	**15 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**0.25 - 0.35**	**Fill**	**10 Aug 2023**	**0.0009**	-	**0.0004**	-	**0.002**	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
319	**0.5 - 0.7**	**Fill**	**10 Aug 2023**	**0.0009**	**0.04**	**0.0052**	**0.28**	<0.0002	<0.02	<0.0001	<0.01	<0.0001	<0.01	-	-	-	-	-
319	**1.1 - 1.3**	**Fill**	**10 Aug 2023**	**0.0005**	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
319	**1.4 - 1.6**	**Natural**	**10 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
319	**2.8 - 3**	**Natural**	**10 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
319	**3.8 - 4**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230810^	**3.8 - 4**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**4.8 - 5**	**Natural**	**10 Aug 2023**	<0.0001	<0.01	<0.0001	<0.02	<0.0002	<0.01	<0.0001	<0.01	**0.0003**	<0.01	-	-	-	-	-
319	**5.8 - 6**	**Natural**	**10 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
319	**6.8 - 7**	**Natural**	**10 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	**7.8 - 8**	**Natural**	**10 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
320	**0.1 - 0.3**	**Fill**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
320	**0.4 - 0.6**	**Natural**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320A	**0.15 - 0.25**	**Fill**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
320A	**0.5 - 0.6**	**Natural**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320B	**0.2 - 0.4**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
320B	**0.5 - 0.7**	**Fill**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PFAS										Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
320B	0.8 - 1	Natural	17 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	0.2 - 0.4	Fill	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	0.5 - 0.7	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320C	1.8 - 2	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230818*	1.8 - 2	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	0 - 0.1	Fill	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0131**	**0.0026**	-
320D	0.3 - 0.4	Fill	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
320D	0.5 - 0.7	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
320D	1.8 - 2	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230818*	1.8 - 2	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321	0.2 - 0.4	Fill	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0002**	-	<0.1	-	**0.0002**	<0.001	-
321	1 - 1.2	Fill	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0001**	-	<0.1	-	-	<0.001	-
321	2 - 2.2	Fill	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0002**	-	<0.1	-	-	<0.001	-
321	4 - 4.2	Natural	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
321	5 - 5.2	Natural	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
321	6 - 6.2	Natural	15 Aug 2023	<0.0001	<0.01	**0.0002**	**0.01**	<0.0002	<0.02	<0.0001	<0.01	**0.0002**	**0.01**	-	-	-	-	-
321	7 - 7.2	Natural	15 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
322	0.2 - 0.4	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322	0.6 - 0.8	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	1.8 - 2	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	2.3 - 2.5	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	3 - 3.2	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	0.2 - 0.4	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	**4.3526**	**1.2694**	**0.3762**	**0.0995**	-
322A	0.6 - 0.8	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322A	1 - 1.2	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322A	1.8 - 2	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322A	2.3 - 2.5	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322A	3.3 - 3.5	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322A	4.3 - 4.5	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230816^	4.3 - 4.5	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	0.2 - 0.4	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	**0.4302**	**0.0447**	**0.1877**	**0.0347**	-
322B	0.5 - 0.7	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	1.5 - 1.7	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322B	2 - 2.2	Fill	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322B	3 - 3.2	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	0.2 - 0.4	Fill	16 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
322C	0.6 - 0.8	Fill	16 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
322C	1.2 - 1.4	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	1.5 - 1.7	Natural	16 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
322C	2.5 - 2.7	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230816^	2.5 - 2.7	Natural	16 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322C	3.3 - 3.5	Natural	16 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
322C	4.8 - 5	Natural	16 Aug 2023	<0.0001	-	<0.0001	<0.01	<0.0002	<0.02	<0.0001	<0.01	**0.0002**	<0.01	-	-	-	-	-
322C	5.8 - 6	Natural	16 Aug 2023	<0.0001	-	<0.0001	<0.01	<0.0002	<0.02	**0.0002**	<0.01	**0.0004**	<0.01	-	-	-	-	-
322C	7.8 - 8	Natural	16 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
322D	0.2 - 0.4	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	**0.1079**	-	**0.0445**	**0.0108**	-
322D	0.7 - 0.9	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322D	1.7 - 1.9	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
322D	2.2 - 2.4	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322D	2.6 - 2.8	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	0.2 - 0.4	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
323	0.7 - 0.9	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	2.1 - 2.3	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
323	2.5 - 2.7	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
323	3.7 - 3.9	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230824*	3.7 - 3.9	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	4.7 - 4.9	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230824*	4.7 - 4.9	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324	0.15 - 0.25	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
324	0.5 - 0.7	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
324	1.8 - 2	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230821*	1.8 - 2	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	0.2 - 0.4	Fill	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
325	0.8 - 1	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
325	3.8 - 4	Natural	21 Aug 2023	**0.0001**	<0.01	**0.001**	**0.02**	<0.0002	<0.02	<0.0001	<0.01	**0.0002**	<0.01	-	-	-	-	-
325	4.8 - 5	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0003**	-	-	-	-	-	-
BD1/20230821^	4.8 - 5	Natural	21 Aug 2023	<0.0001	<0.01	<0.0001	<0.01	<0.0002	<0.02	<0.0001	<0.01	**0.0013**	**0.04**	-	-	-	-	-
325	6.8 - 7	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
326	0.15 - 0.25	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
326	0.5 - 0.7	Fill	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
326	1 - 1.2	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
326	3.3 - 3.5	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
326	3.8 - 4	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	4.3 - 4.5	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	4.8 - 5	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	5.3 - 5.5	Natural	21 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
326	5.8 - 6	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	6.3 - 6.5	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	6.8 - 7	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	7.3 - 7.5	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	7.8 - 8	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	8.3 - 8.5	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	8.8 - 9	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	0.2 - 0.4	Fill	18 Aug 2023	**0.0002**	**0.01**	**0.0007**	**0.01**	**0.0008**	<0.02	**0.0012**	**0.05**	**0.001**	**0.02**	<0.1	-	-	<0.001	-
327	0.5 - 0.7	Fill	18 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	**0.0011**	-	<0.0001	-	<0.1	-	-	<0.001	-
327	1.8 - 2	Natural	18 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
327	4.8 - 5	Natural	18 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0005**	-	-	-	-	-	-
327	5.8 - 6	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230818*	5.8 - 6	Natural	18 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	6.8 - 7	Natural	18 Aug 2023	<0.0001	<0.01	<0.0001	<0.01	<0.0002	<0.02	**0.0001**	<0.01	**0.0006**	**0.02**	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PFAS										Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
328	0.1 - 0.3	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	0.4 - 0.6	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	0.8 - 1	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	1.3 - 1.5	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328	2.8 - 3	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	0.1 - 0.3	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328A	0.5 - 0.7	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328A	1.5 - 1.7	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328A	2.4 - 2.6	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328A	3.3 - 3.5	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328A	3.8 - 4	Fill	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328A	4.1 - 4.3	Natural	21 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	0.1 - 0.3	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	0.5 - 0.7	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	1.5 - 1.7	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	2.7 - 2.9	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	3.1 - 3.3	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	3.5 - 3.6	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	4.8 - 5	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	7.8 - 8	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230824*	7.8 - 8	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	0.1 - 0.3	Fill	24 Aug 2023	**0.0006**	**0.03**	**0.0060**	**0.18**	**0.0051**	**0.05**	**0.0001**	<0.01	**0.001**	<0.01	<0.1	-	-	<0.001	-
328C	0.5 - 0.7	Fill	24 Aug 2023	**0.0004**	-	**0.0013**	-	**0.0005**	-	<0.0001	-	**0.001**	-	<0.1	-	-	<0.001	-
328C	1.5 - 1.7	Fill	24 Aug 2023	**0.0003**	<0.01	**0.0012**	**0.03**	**0.0003**	<0.02	<0.0001	<0.01	**0.0005**	<0.01	-	-	-	-	-
328C	2.6 - 2.8	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328C	3.2 - 3.4	Fill	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328C	4.8 - 5	Natural	24 Aug 2023	<0.0001	-	**0.0001**	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
328C	6.8 - 7	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328C	7.8 - 8	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230824*	7.8 - 8	Natural	24 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	0.25 - 0.35	Fill	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	**0.1516**	-	**0.0723**	**0.0152**	-
328D	0.5 - 0.7	Fill	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
328D	1.5 - 1.7	Fill	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	2.4 - 2.6	Natural	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328D	3 - 3.2	Natural	11 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	0 - 0.1	Fill	23 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329/PACM1	Surface	Material	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Present
329	0.1 - 0.3	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	0.5 - 0.7	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	1 - 1.2	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	1.3 - 1.5	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	2.3 - 2.5	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	2.8 - 3	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	3.8 - 4	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	4.1 - 4.3	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	4.6 - 4.8	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	5 - 5.2	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	5.5 - 5.7	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	6 - 6.2	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	6.5 - 6.7	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329	6.8 - 7	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	0.1 - 0.3	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	**0.0182**	-	<0.001	-
329A	0.5 - 0.7	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	1.3 - 1.5	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329A	1.8 - 2	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329A	2.8 - 3	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329A	3.3 - 3.5	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329A	3.8 - 4	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	0.1 - 0.2	Fill	14 Aug 2023	**0.0003**	**0.01**	**0.0025**	<0.01	**0.0005**	<0.02	**0.0002**	<0.01	**0.0031**	**0.02**	<0.1	-	-	<0.001	-
329B	0.5 - 0.7	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	**3.1070**	**0.9229**	-	<0.001	-
329B	1.5 - 1.6	Fill	14 Aug 2023	**0.0005**	**0.01**	**0.0006**	<0.01	**0.0003**	<0.02	**0.0003**	<0.01	**0.0080**	**0.22**	<0.1	-	-	<0.001	-
329B	2 - 2.2	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	2.5 - 2.7	Fill	14 Aug 2023	**0.0008**	-	**0.0001**	-	<0.0002	-	**0.0007**	-	<0.0001	-	-	-	-	-	-
329B	3.5 - 3.7	Fill	14 Aug 2023	**0.0004**	-	<0.0001	-	<0.0002	-	**0.0002**	-	<0.0001	-	<0.1	-	-	<0.001	-
329B	4.3 - 4.5	Fill	14 Aug 2023	**0.0003**	**0.02**	<0.0001	<0.02	<0.0002	<0.03	**0.0003**	**0.01**	**0.0008**	**0.04**	<0.1	-	-	<0.001	-
329B	5 - 5.1	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329B	5.2 - 5.4	Natural	14 Aug 2023	<0.0001	<0.01	<0.0001	<0.01	<0.0002	<0.02	<0.0001	<0.01	**0.0002**	<0.01	-	-	-	-	-
329B	6.8 - 7	Natural	14 Aug 2023	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
329C	0.1 - 0.2	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329C	0.5 - 0.7	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C/PACM2	1	Material	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Present
329C	1.5 - 1.7	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329C	2.3 - 2.5	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329C	3.3 - 3.5	Fill	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	4.1 - 4.3	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	4.6 - 4.8	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	5.1 - 5.3	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	5.6 - 5.8	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329C	6.8 - 7	Natural	15 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	0.1 - 0.3	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0198**	**0.0087**	-
329D	0.5 - 0.7	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	0.9 - 1.1	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	1.9 - 2.1	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
329D	2.4 - 2.6	Fill	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	2.9 - 3.1	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	3.4 - 3.6	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	4 - 4.2	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	4.5 - 4.7	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	5 - 5.2	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	5.5 - 5.7	Natural	14 Aug 2023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J1: Summary of Soil Laboratory Results

				PFAS										Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
329D	**6 - 6.2**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.5 - 6.7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
329D	**6.9 - 7**	**Natural**	**14 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	**0.1 - 0.3**	**Fill**	**15 Aug 2023**	**0.0006**	-	**0.0044**	-	**0.001**	-	**0.0002**	-	**0.0025**	-	<0.1	-	-	<0.001	-
330	**1 - 1.2**	**Fill**	**15 Aug 2023**	**0.0007**	-	**0.0001**	-	<0.0002	-	**0.0016**	-	**0.013**	-	<0.1			<0.001	-
330	**2 - 2.2**	**Fill**	**15 Aug 2023**	**0.0006**	-	**0.0002**	-	<0.0002	-	**0.0015**	-	**0.016**	-	**1.2309**	**0.2447**	**0.3058**	**0.0684**	-
331	**0.1 - 0.3**	**Fill**	**28 Aug 2023**	**0.0001**	<0.01	**0.0001**	<0.01	<0.0002	<0.02	**0.0002**	<0.01	**0.0048**	**0.03**	**0.6593**	**0.1963**	-	<0.001	-
331	**1 - 1.2**	**Fill**	**28 Aug 2023**	**0.0002**	<0.01	<0.0001	<0.01	<0.0002	<0.02	**0.0008**	**0.02**	**0.0047**	**0.1**	<0.1			<0.001	-
331	**2.5 - 2.7**	**Fill**	**28 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	**0.0004**	-	**13.8413**	**2.9370**	**0.2262**	**0.0990**	-
331	**3 - 3.2**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
331	**3.9 - 4.1**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**4.8 - 5**	**Fill**	**28 Aug 2023**	**0.0002**	-	<0.0001	-	<0.0002	-	**0.0019**	-	**0.0009**	-	<0.1	-	-	<0.001	-
331	**5.2 - 5.4**	**Fill**	**28 Aug 2023**	**0.0002**	<0.01	**0.0005**	<0.01	<0.0002	<0.02	**0.0006**	**0.01**	**0.0012**	<0.01	-	-	-	-	-
331	**5.7 - 5.9**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**6.3 - 6.5**	**Natural**	**28 Aug 2023**	<0.0001	<0.01	<0.0001	<0.01	<0.0002	<0.02	<0.0001	<0.01	**0.0003**	**0.02**	-	-	-	-	-
331	**6.8 - 7**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.3 - 7.5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**7.8 - 8**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**8.3 - 8.5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 1)	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331 (Retest 2)	**8.8 - 9**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
332	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	**0.0003**	-	<0.0001	-	<0.0002	-	**0.0002**	-	**0.0023**	-	<0.1	-	-	<0.001	-
332	**1 - 1.2**	**Fill**	**29 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	**0.0004**	-	**0.0051**	-	<0.1	-	**0.0202**	**0.0061**	-
333	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
333	**1 - 1.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	**0.3305**	-	**0.1220**	**0.0331**	-
333	**1.5 - 1.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
333 (Retest 1)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 2)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2.4 - 2.6**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	**1.1263**	**0.2241**	-	<0.001	-
333	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333 (Retest 2)	**2 - 2.2**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**2.4 - 2.6**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	**1.1263**	**0.2241**	-	<0.001	-
333	**5.8 - 6**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
333	**7.3 - 7.5**	**Natural**	**29 Aug 2023**	-	<0.01	-	**0.03**	-	<0.02	-	<0.01	-	<0.01	-	-	-	-	-
334	**0.1 - 0.3**	**Fill**	**29 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	**0.0002**	-	**0.0023**	-	<0.1	-	**0.0057**	**0.0015**	-
334	**2 - 2.2**	**Fill**	**29 Aug 2023**	<0.0001	<0.01	<0.0001	<0.01	<0.0002	<0.02	**0.0006**	<0.01	**0.0029**	**0.15**	<0.1	-	**0.0020**	<0.001	-
334	**2.5 - 2.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**3 - 3.2**	**Fill**	**29 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	**0.0001**	-	**0.0003**	-	<0.1	**0.0017**	-	<0.001	-
334	**4.5 - 4.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**5.5 - 5.7**	**Fill**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
334	**6 - 6.2**	**Natural**	**29 Aug 2023**	<0.0001	<0.01	**0.0015**	**0.04**	<0.0002	<0.02	<0.0001	<0.01	**0.0002**	<0.01	-	-	-	-	-
334	**6.8 - 7**	**Natural**	**29 Aug 2023**	<0.0001	<0.01	**0.0005**	**0.05**	<0.0002	<0.02	<0.0001	<0.01	<0.0001	<0.01	-	-	-	-	-
334	**7.3 - 7.5**	**Natural**	**29 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**0.2 - 0.4**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
335	**0.5 - 0.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
335	**1.1 - 1.3**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230824*	**3.7 - 3.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<0.0001	<0.01	<0.0001	<0.01	<0.0002	-	<0.0001	<0.01	<0.0001	<0.01	-	-	-	-	-
BD6/20230824^	**4.7 - 4.9**	**Natural**	**24 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
335	**5.7 - 5.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	**0.2 - 0.3**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**0.4 - 0.5**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**0.6 - 0.7**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**1.1 - 1.2**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**1.4 - 1.5**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**2.4 - 2.6**	**Fill**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
336	**2.7 - 2.9**	**Natural**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
337	**0.5 - 0.7**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**1.5 - 1.7**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
337	**2.4 - 2.6**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**4.8 - 5**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**6.8 - 7**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230825*	**6.8 - 7**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230825^	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**0.2 - 0.4**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
338	**1 - 1.2**	**Fill**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
338	**2.1 - 2.3**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**4.8 - 5**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**5.8 - 6**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**6.8 - 7**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338 (Retest 1)~	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338 (Retest 2)	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230825*	**7.8 - 8**	**Natural**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	**0.0003**	-	**0.0002**	-	**0.0003**	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
339	**1 - 1.2**	**Fill**	**28 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
339	**1.6 - 1.8**	**Natural**	**28 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	-	-	-	-	-
339	**2.8 - 3**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**4.8 - 5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230828^	**4.8 - 5**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**5.8 - 6**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**7.8 - 8**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230828*	**7.8 - 8**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	**0.3 - 0.5**	**Fill**	**28 Aug 2023**	**0.0001**	<0.01	<0.0001	<0.01	<0.0002	<0.02	**0.0002**	<0.01	**0.0002**	<0.01	<0.1	-	-	<0.001	-
340	**0.8 - 1**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
340	**1.1 - 1.3**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-

Table J1: Summary of Soil Laboratory Results

				PFAS											Asbestos				
				PFOA	PFOA - ASLP	6:2 FTS	6:2 FTS - ASLP	8:2 FTS	8:2 FTS - ASLP	PFHxS	PFHxS - ASLP	PFOS	PFOS - ASLP	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF/FA Estimation	AF/FA Estimation	Asbestos in Material
				mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	mg/kg	µg/L	g/kg	g	g	%w/w	Present
LRL				0.0001	0.01	0.0001	0.01	0.0002	0.02	0.0001	0.01	0.0001	0.01	0.1	0.0001	0.0001	0.001	-
NEPC(2013) HILs for Comm/Ind D, Soil				50													0.001	
NEPC (2013) HSL Comm/Ind D Soil, Sand, 1-2 m / 2-4 m																		
NEPC (2013) Management Limits Comm/Ind, Sand																		
VMP, Allnex (2020)																		
USEPA RSLs Industrial Soil THQ=1.0, TR=10-5																		
Sample ID	**Sample Depth**	**Matrix**	**Date**															
340	**2.8 - 3**	**Fill**	**28 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	<0.0001	-	<0.0001	-	<0.1	-	-	<0.001	-
340	**3.6 - 3.8**	**Natural**	**28 Aug 2023**	<0.0001	-	<0.0001		<0.0002		<0.0001		<0.0001			-			-
341	**0.2 - 0.4**	**Fill**	**28 Aug 2023**	**0.0003**	<0.01	<0.0001	<0.01	<0.0002	<0.02	**0.0003**	<0.01	**0.0009**	**0.02**	**0.1354**	-	**0.0661**	**0.0135**	-
341	**0.7 - 0.9**	**Fill**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**1.2 - 1.4**	**Fill**	**28 Aug 2023**		-		-		-		-		-		-	-	-	-
341	**1.7 - 1.9**	**Fill**	**28 Aug 2023**	<0.0001	-	<0.0001	-	<0.0002	-	**0.0001**	-	<0.0001	-	<0.1	-	-	<0.001	-
341	**3.2 - 3.4**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**5.8 - 6**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230828*	**5.8 - 6**	**Natural**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT101	**0.15 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT102	**0.13 - 0.2**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT103	**0.03 - 0.1**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT104	**0.18 - 0.25**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT105	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT106	**0.15 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT107	**0.16 - 0.25**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT108	**0.2 - 0.3**	**Fill**	**01 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT109	**0.17 - 0.3**	**Fill**	**02 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT110	**0.17 - 0.3**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT111	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT112	**0.17 - 0.3**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-		<0.001	-
CPT113	**0.15 - 0.25**	**Fill**	**07 Aug 2023**	-	-	-	-	-	-	-	-	-	-	**1.9085**	-	**1.3084**	**0.1908**	-
CPT114	**0.2 - 0.3**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT115	**0.15 - 0.25**	**Fill**	**04 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-
CPT116	**0.09 - 0.2**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1			<0.001	-
CPT117	**0.17 - 0.3**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	**3.4687**	**2.9805**	**0.0531**	**0.0061**	-
CPT118	**0.15 - 0.25**	**Fill**	**03 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0001**	<0.001	-
CPT119	**0.16 - 0.25**	**Fill**	**08 Aug 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	**0.0174**	**0.0015**	-
CPT120	**0.13 - 0.25**	**Fill**	**31 Jul 2023**	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	<0.001	-

Notes:

^ : Intra-laboratory replicate listed directly below the primary.

* : Inter-laboratory replicate listed directly below the primary.

LRL : Laboratory reporting limit.

SAC : Refer to Appendix H for additional SAC informatic

: Criteria in line also includes NEMP (2020) PFAS and CRC Care (2011) direct contact criteria.

~ : Retest of sample 33/7.8-8 also included analysis of other analytes.

- Sample depth relative to current site levels.

Table 32: Summary of Groundwater Laboratory Results

| | | | TRH | | | | | | | | | | | TPH | | | | | | BTEX | | | | | MAH | | | | | | | | | | |

Table 32: Summary of Groundwater Laboratory Results

| | | | Halogenated Hydrocarbons | | | | Chlorinated Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | | | Chlorinated Hydrocarbons | | | | | | | | | | | PFAS | | | | | | Metals | | | | | | | Phenols | | | | | | | | | | | | | | | | | | |

Table 32: Summary of Groundwater Laboratory Results

			Phenols				PCB			Organochlorine Pesticides																						Organophosphorus Pesticides																								Pseudomonas aeruginosa	Parameters	
			4-Nitrophenol	Pentachlorophenol	Phenol	Phenolics Total	Arochlor 1242	Arochlor 1254	PCB (total)	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Azinophos-methyl	Bromophos-ethyl	Carbophenothion	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethion	Fenitrothion	Fenthion	Malathion	Methidathion	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Phorate	Prothiofos	Ronnel	OPP (total)		Total Dissolved Solids (Lab)	Total Suspended Solids (Lab)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	CFU/100mL	mg/L	mg/L
LRL			20	5	1	50	0.01	0.01	LRL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.5	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.2	0.05	0.5	0.5	0.009	0.05	0.05	0.01	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	2	0.05	0.5	0.05	LRL	10	5	5
VMP, Allnex (2020)																																																								
NEPC (2013) Comm/Ind HSL D, Sand, 2-4 m & 4-8 m																																																							
ANZG (2018) Marine Water LOP 95%				22~	400	400	0.6~	0.03~				0.003`			0.001	(0.08)					0.004`	(0.01)		0.01`		0.01~		0.008~		0.007`	(0.2)	0.0004`	(0.09)		0.004`			0.009			0.01		0.15				0.0001	0.05														
ANZG (2018) Marine Water LOP 99%				33	520	520	1	0.07				0.003			0.001	(0.14)					0.004	(0.02)		0.01		0.02		0.01		0.007	(0.2)	0.0004	(0.4)					0.04			0.2		0.2					0.2														
HEPA(2020), PFAS Interim Marine 95%																																																							
HEPA(2020), PFAS Interim Marine 90%																																																							
Well ID	**Sample Depth**	**Date**																																																						
209	**13.5**	**21 Sep 2023**	-	-	-	<50	-	-	-	**0.016**	**0.017**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.35**	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**510**	**19**
209	**13.7**	**08 Nov 2023**	<20	<5	<1	-	-	-	-	**0.020**	**0.010**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.36**	**0.019**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**340**	**8**
BD1/20231108*	**13.7**	**08 Nov 2023**	-	-	-	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**13**	**21 Sep 2023**	-	-	-	<50	-	-	-	**0.003**	**0.003**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.020**	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**750**	**67**
210	**13**	**08 Nov 2023**	<20	<5	**1**	-	-	-	-	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.024**	**0.004**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**360**	**24**
BD2/20231108*	**13**	**08 Nov 2023**	-	-	-	<50	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**6.5**	**21 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**400**	**43**
305	**6**	**21 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**470**	**19**
307	**6.5**	**21 Sep 2023**	-	-	-	<50	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**590**	**10**
307(T)	**5.5**	**10 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**600**	**56**
307	**6.75**	**10 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**530**	**16**
311	**6.5**	**20 Sep 2023**	-	-	-	<50	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**220**	**30**
BD1/20230920*	**6.5**	**20 Sep 2023**	-	-	-	<50	-	-	<LRL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	-	<2.0	-	<2.0	-	<0.5	-	<LRL	-	-	-
331	**6.5**	**21 Sep 2023**	-	-	-	**200**	<0.01	<0.01	<LRL	**0.17**	**0.090**	<0.001	<0.001	<0.001	<0.001	<0.001	**1.8**	**2**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	**0.006**	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**350**	**350**
331(T)	**6**	**08 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**390**	**47**
331	**7**	**08 Nov 2023**	<20	<5	<1	-	-	-	-	**0.091**	**0.072**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.91**	**1.2**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**370**	**43**
334	**6.5**	**21 Sep 2023**	-	-	-	<50	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.020**	**0.004**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**670**	**95**
334(T)	**5.5**	**08 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**590**	**110**
334	**6.75**	**08 Nov 2023**	<20	<5	<1	-	-	-	-	**0.017**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.050**	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**600**	**100**
338	**6.5**	**21 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**50**	**32**
338(T)	**5.2**	**09 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**43**	**24**
338	**6.5**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**55**	**190**
BD1/20231109^	**6.5**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	**6**	**20 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**150**	**29**
BD4/20230920*	**6**	**20 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW03	**6.5**	**21 Sep 2023**	-	-	-	**4,900**	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**6,100**	**19**
JBMW04	**6.25**	**21 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**160**	**5**
JBMW05	**6.25**	**21 Sep 2023**	-	-	-	-	<0.01	<0.01	<LRL	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.010**	**0.026**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**420**	**68**
JBMW05(T)	**5.5**	**08 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**490**	**7**
JBMW05	**6.5**	**08 Nov 2023**	<20	<5	<1	-	-	-	-	**0.006**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.005**	**0.022**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**620**	**21**
JBMW06`	**6.5**	**20 Sep 2023**	-	-	-	**200**	<0.05	<0.05	<LRL	**1.8**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**37**	**7.8**	-	<0.05	<0.10	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<1	<0.2	-	-	<0.04	<0.2	<0.2	<0.05	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	<LRL	-	**240**	**11**
BD3/20230920^	**6.5**	**20 Sep 2023**	-	-	-	**200**	<2	<2	<LRL	**0.4**	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**8.0**	**2**	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	<LRL	-		
JMBW06(T)	**5.75**	**09 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**200**	**<5**
JMBW06	**6.75**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	**0.048**	**0.11**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.53**	**0.12**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**250**	**<5**
JBMW07`	**6.5**	**20 Sep 2023**	-	-	-	**60**	<0.01	<0.01	<LRL	**0.050**	**0.17**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.71**	**0.13**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**270**	**<5**
JMBW07(T)	**5.75**	**09 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**160**	**28**
JMBW07	**6.75**	**09 Nov 2023**	<20	<5	**2**	-	-	-	-	**0.24**	**0.093**	<0.001	<0.001	<0.001	<0.001	<0.001	**15**	**3.7**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**220**	**13**
JBMW10	**6**	**20 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**300**	**8**
JBMW11	**6**	**10 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**130**	**35**
BD1/20231110^	**6**	**10 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW12	**6.5**	**21 Sep 2023**	-	-	-	**100**	<0.01	<0.01	<LRL	**0.041**	**0.078**	<0.001	<0.001	<0.001	<0.001	<0.001	**3.7**	**0.040**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**180**	**19**
JBMW12(T)	**5.15**	**08 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**260**	**52**
JBMW12	**7**	**08 Nov 2023**	<20	<5	**4**	-	-	-	-	**0.041**	**0.088**	<0.001	<0.001	<0.001	<0.001	<0.001	**4.5**	**0.032**	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**210**	**<5**
JBMW13	**6.5**	**20 Sep 2023**	-	-	-	**60**	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	**190**	**<5**
BD2/20230920^	**6.5**	**20 Sep 2023**	-	-	-	**70**	<2	<2	<LRL	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	<LRL	-	-	-
JBMW13(T)	**5.7**	**08 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**110**	**<5**
JBMW13	**7**	**08 Nov 2023**	<20	<5	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**150**	**5**
MW09	**5.5**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**240**	**98**
MW11	**6**	**20 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**200**	**18**
MW18	**5.5**	**10 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**280**	**<5**
MW32-S	**5.75**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	**380**	**69**
MW40-S	**6.25**	**22 Sep 2023**	-	-	-	**80**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**330**	**39**
MW40-S(T)	**5.75**	**09 Nov 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**220**	**87**
MW40-S	**6.5**	**09 Nov 2023**	<20	<5	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	**240**	**180**
MW40-D	**9**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**640**	**10**
MW41-S	**6.25**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**200**	**54**
MW41-D	**9**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**950**	**40**
WG229-S #	**9**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**500**	**10**
WG229-D	**28.5**	**22 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WG230-S	**9**	**22 Sep 2023**	-	-	-	<50	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	-	-
WG233-I	**20**	**22 Sep 2023**	-	-	-	<50	<0.01	<0.01	<LRL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.2	<0.05	-	-	<0.009	<0.05	<0.05	<0.01	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<LRL	-	-	-
WG233-D	**29**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230922*	**29**	**22 Sep 2023**	-	-	-	<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

^ : Intra-laboratory replicate listed directly below the primary.
+ : Inter-laboratory replicate listed directly below the primary.
# : WG229-S incorrectly labelled WG229-I on COC and lab report.

!: Based on review of previous results and results from the second round of sampling (9 November 2023), there is the potential that results for JBMW06 and JBMW07 sampled on 20 September 2023 should be switched between the two wells.

(T) : T prefix indicates sample taken from top of the wate column.
LRL : Laboratory reporting limit.
SAC : Refer to Appendix H for additional SAC information.
- Where the LOP is unknown this has been indicated against the 90% and 95% LOP.
- Sample depth relative to current site levels.
+ : Potential for chronic toxicity.
~ : Potential for bioaccumulation.
` : Unknown LOP for OCP criteria in marine water, moderate reliability freshwater indicated in brackets where available.

Table J3: Summary of Soil Vapour Laboratory Results

		TRH		TPH			BTEX						MAH				Halogenated Benzenes				
		C6-C10 (F1 minus BTEX)	>C10-C12 Fraction (F2 minus Naphthalene)	Aliphatic >C5-C8	Aliphatic >C9-C12	Aromatic >C9-C10	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	1-methyl-4 ethyl benzene	Styrene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
EQL		0.2	40	200	50	100	1.6	1.9	2.2	4.3	2.2	2.6	2.5	2.5	2.5	2.1	3.7	3	3	3	2.3
NEPC (2013) Comm/Ind D VOCC																					
NEPC (2013) Comm/Ind HSL D, Sand, 0-1 m		680,000	500,000				4,000	4,800,000	1,300,000	840,000		3,000									
NEPC (2013) Comm/Ind HSL D, Sand, 1-2 m		2,800,000	2,400,000				10,000	16,000,000	4,600,000	3,200,000		15,000									
NEPC (2013) Comm/Ind HSL D, Sand, 2-4 m		7,000,000	NL				30,000	39,000,000	11,000,000	8,000,000		35,000									
NEPC (2013) Comm/Ind HSL D, Sand, 4-8 m		15,000,000	NL				65,000	84,000,000	25,000,000	18,000,000		75,000									
USEPA RSL -Sub-Slab Comm/Ind#													2,630	2,630		43,800					
Soil Vapour Port ID	**Sample Date**																				
301	**05 Sep 2023**	<200	**50**	<200	<50	<100	<1.6	**10**	**4**	**10**	**3**	<2.6	<2.5	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
BD1/20230905^	**05 Sep 2023**	<200	<40	<200	<50	<100	<1.6	**20**	**4**	**10**	**4**	<2.6	<2.5	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
303	**05 Sep 2023**	<200	**80**	**620**	**92**	<100	<1.6	**80**	**38**	**230**	**54**	<2.6	**3**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
304	**05 Sep 2023**	**820**	**780**	**280**	**1,000**	<100	<1.6	**20**	**6**	**10**	**4**	<2.6	**3**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
306	**05 Sep 2023**	**480**	**840**	**540**	**1,000**	<100	<1.6	**37**	**5**	**10**	**3**	<2.6	**4**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
328C	**05 Sep 2023**	<200	<40	<200	<50	<100	<1.6	**9**	**8**	**10**	**4**	<2.6	**4**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
329B	**05 Sep 2023**	<200	<40	<200	<50	<100	<1.6	**10**	**35**	**81**	**20**	<2.6	**5**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
329C	**05 Sep 2023**	<200	**70**	<200	<50	<100	<1.6	**10**	**8**	**20**	**5**	<2.6	**4**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
330	**05 Sep 2023**	<200	**60**	<200	<50	<100	**2**	**7**	**10**	**20**	**5**	<2.6	**4**	<2.5	<2.5	<2.1	<3.7	<3	<3	<3	<2.3
332	**26 Sep 2023**	**16,000**	**2,000**	**5,800**	**5,000**	**210**	<1.6	**130**	**230**	**270**	**170**	<2.6	**20**	**27**	**20**	**76**	<3.7	<3	<3	<3	<2.3
333	**26 Sep 2023**	**150,000**	**6,900**	**100,000**	**21,000**	**180**	**10**	**680**	**550**	**550**	**290**	<2.6	**20**	**26**	**20**	**79**	<3.7	<3	<3	<3	<2.3
Shroud 1/20230905	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shroud 1/20230926	**26 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

: USEPA RSL -Sub-Slab Comm/Ind THQ=1.0, TR=10-5, Slab Attenuation Factor 0.1.

^ : Intra-laboratory replicate listed directly below the primary.

- IPA was added for QA purposes. IPA in all samples results recorded <1% of the shroud samples and hence the recorded IPA detections are not

Table J3: Summary of Soil Vapour Laboratory Results

		Halogenated Hydrocarbons				Chlorinated Hydrocarbons																			
		1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2-dichloroethane	1,2-dichloropropane	Benzyl chloride	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
EQL		3.8	1.9	2.5	2.8	2.7	3.4	2.7	2	2	2	2.3	2.6	3.4	5.2	3.1	1.6	1.3	2.4	1	2	2.3	17	5.3	2.7	3.4
NEPC (2013) Comm/Ind D VOCC						230,000															300				80	8,000
NEPC (2013) Comm/Ind HSL D, Sand, 0-1 m																										
NEPC (2013) Comm/Ind HSL D, Sand, 1-2 m																										
NEPC (2013) Comm/Ind HSL D, Sand, 2-4 m																										
NEPC (2013) Comm/Ind HSL D, Sand, 4-8 m																										
USEPA RSL -Sub-Slab Comm/Ind#																			53		1750				87.6	17500
Soil Vapour Port ID	**Sample Date**																									
301	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
BD1/20230905^	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
303	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
304	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
306	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
328C	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	**3**	<1	<2	<2.3	<17	<5.3	<2.7	**7**
329B	**05 Sep 2023**	<3.8	<1.9	<2.5	**5**	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	**7**	**10**
329C	**05 Sep 2023**	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	**4**	<1	<2	<2.3	<17	<5.3	<2.7	<3.4
330	**05 Sep 2023**	<3.8	<1.9	<2.5	**4**	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	**3**	<1	<2	<2.3	<17	<5.3	<2.7	**6**
332	**26 Sep 2023**	<3.8	<1.9	<2.5	**37**	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	**5**	<1	<2	<2.3	<17	<5.3	<2.7	**7**
333	**26 Sep 2023**	<3.8	<1.9	<2.5	**10**	<2.7	<3.4	<2.7	<2.0	<2.0	<2	<2.3	<2.6	<3.4	<5.2	<3.1	<1.6	<1.3	<2.4	<1.0	**2**	<2.3	<17	<5.3	<2.7	<3.4
Shroud 1/20230905	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shroud 1/20230926	**26 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

: USEPA RSL -Sub-Slab Comm/Ind THQ=1.0, TR=10-5, Slab Attenuation Factor 0.1.

^ : Intra-laboratory replicate listed directly below the primary.

- IPA was added for QA purposes. IPA in all samples results recorded <1% of the shroud samples and hence the recorded IPA detections are not

Table J3: Summary of Soil Vapour Laboratory Results

					Solvents														VOCs					
		trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,3-Butadiene	1,4-Dioxane	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Acetone	Carbon disulfide	Cyclohexane	Ethanol	Ethyl acetate	Heptane	Hexane	MTBE	Tetrahydrofuran	Vinyl acetate	Acrolein	Freon 113	Freon 114	Propene	Methyl Methacrylate	2-Propanol (IPA)
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
EQL		2	2.3	1.3	1.1	1.8	15	2	20	11.9	16	1.7	9	1.8	2	1.8	1.8	1.5	1.8	11	3.8	2.5	0.9	2	12
NEPC (2013) Comm/Ind D VOCC				100																					
NEPC (2013) Comm/Ind HSL D, Sand, 0-1 m																									
NEPC (2013) Comm/Ind HSL D, Sand, 1-2 m																									
NEPC (2013) Comm/Ind HSL D, Sand, 2-4 m																									
NEPC (2013) Comm/Ind HSL D, Sand, 4-8 m																									
USEPA RSL -Sub-Slab Comm/Ind#				279								263,000	394		17,500	30,700							131,000		
Soil Vapour Port ID	**Sample Date**																								
301	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**210**
BD1/20230905^	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**220**
303	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**970**
304	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**60**
306	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	**2**	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**90**
328C	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**90**
329B	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	**3**	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**40**
329C	**05 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	**10**	<1.8	<2	**10**	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**100**
330	**05 Sep 2023**	<2	<2.3	**5**	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	**10**	<1.8	<2	**2**	<1.8	<1.5	<1.8	<11	<3.8	<2.5	**8**	<2	**60**
332	**26 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	**10**	**60**	<1.8	**23**	**4**	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**20**
333	**26 Sep 2023**	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	**700**	**80**	<1.8	**1,000**	**470**	<1.8	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2	**20**
Shroud 1/20230905	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**821,428,571**
Shroud 1/20230926	**26 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3,714,286**

Notes:

: USEPA RSL -Sub-Slab Comm/Ind THQ=1.0, TR=10-5, Slab Attenuation Factor 0.1.

^ : Intra-laboratory replicate listed directly below the primary.

- IPA was added for QA purposes. IPA in all samples results recorded <1% of the shroud samples and hence the recorded IPA detections are not

Table J4: Acid Sulphate Soil Results

Sample Information				Screening Test Results				Laboratory Analysis Results (Acid Base Accounting)					
Location ID	Depth from (m)	Depth to (m)	Sample Description	pH_F (pH units)	pH_{FOX} (pH units)	Reaction Strength	pH change (pH units)	pH_{KCl} (pH units)	Scr (%S)	s-TAA (%S)	s-Net Acidity Acidity without ANC (%S)	Liming Rate with ANCE (kg CaCO3/tonne)	Liming Rate without ANCE (kg CaCO3/tonne)
BH201	12	12.3	Silty SAND (SP): dark brown and dark grey	5.2	**1.9**	High	**3.3**	4.5	0.030	<0.01	**0.037**	2.000	1.700
BH201	13	13.3	SAND (SP): brown	5.8	**2**	Medium	**3.8**	4.7	0.030	<0.01	**0.032**	1.000	1.500
BH201	14	14.45	SAND (SP): brown	5.9	**1.9**	Extreme	**4.0**	5.1	0.008	<0.01	0.009	<0.75	<0.75
BH201	15	15.25	SAND (SP): brown	6.3	3.1	Medium	**3.2**	5.5	0.060	<0.01	**0.055**	3.000	2.600
BH201	16	16.15	SAND (SP): brown	6.4	3.3	Medium	**3.1**	-	-	-	-	-	
BH202	0.5	0.7	SAND (SP): pale grey	7.8	5.6	Low	**2.2**	-	-	-	-	-	
BH202	0.8	1	SAND (SP): pale grey	8	6.2	Low	**1.8**	-	-	-	-	-	
BH202	1	1.45	SAND (SP): pale grey	7.8	5.3	Low	**2.5**	5.8	<0.005	<0.01	<0.005	<0.75	<0.75
BH202	1.5	1.7	SAND (SP): yellow-brown	7.9	6	Low	**1.9**	-	-	-	-	-	
BH202	2	2.2	SAND (SP): yellow-brown	8.6	5.8	Low	**2.8**	-	-	-	-	-	
BH202	2.5	2.95	SAND (SP): yellow-brown	7.9	5.5	Low	**2.4**	-	-	-	-	-	
BH202	3	3.2	SAND (SP): yellow-brown	7.7	5.5	Low	**2.2**	-	-	-	-	-	
BH202	3.5	3.7	SAND (SP): yellow-brown	8.3	5.7	Low	**2.6**	-	-	-	-	-	
BH202	4	4.45	SAND (SP): yellow-brown	8.2	5.3	Low	**2.9**	5.8	<0.005	<0.01	<0.005	<0.75	<0.75
BH202	4.5	4.7	SAND (SP): pale grey	7.5	5.3	Low	**2.2**	-	-	-	-	-	
BH202	5	5.2	SAND (SP): pale grey	8	5.8	Low	**2.2**	-	-	-	-	-	
BH202	5.5	5.95	SAND (SP): pale grey	8.2	5.6	Low	**2.6**	6.2	<0.005	<0.01	<0.005	<0.75	<0.75
BH202	6.5	6.95	SAND (SP): pale grey	8.1	6.5	Low	**1.6**	-	-	-	-	-	
BH202	7.5	7.95	SAND (SP): pale grey	8.1	5.8	Low	**2.3**	-	-	-	-	-	
BH202	8.5	8.9	SAND (SP): pale grey	8.7	3.1	Low	**5.6**	6.0	0.020	<0.01	0.020	1.000	0.960
BH202	9	9.7	SAND (SP): pale grey	8.3	4.4	Low	**3.9**	-	-	-	-	-	
BH202	9.7	9.95	Silty SAND (SM): dark brown and brown	8.8	5.2	Low	**3.6**	-	-	-	-	-	
BH202	10.5	10.95	Silty SAND (SM): dark brown and brown	8.8	4.4	Low	**4.4**	4.8	0.010	<0.01	0.012	<0.75	<0.75
BH202	11.5	11.8	Silty SAND (SM): dark brown and brown	8.9	3.9	Low	**5.0**	4.6	0.006	<0.01	0.009	<0.75	<0.75
BH202	12.5	12.8	SAND (SP): grey-brown	8.7	3.6	Low	**5.1**	4.6	0.010	<0.01	0.014	<0.75	<0.75
BH202	13.5	13.95	SAND (SP): grey-brown	8.2	3.5	Low	**4.7**	-	-	-	-	-	
BH202	14.5	14.65	SAND (SP): grey-brown	7.8	3.9	Low	**3.9**	-	-	-	-	-	
BH202	14.65	14.95	SAND (SP): grey-brown	7.5	3.6	Low	**3.9**	4.9	0.030	<0.01	0.029	1.000	1.400
BH202	15.5	15.95	SAND (SP): grey-brown	7.3	3	Low	**4.3**	-	-	-	-	-	
BH202	16.5	16.95	SAND (SP): grey-brown	7.6	3.4	Low	**4.2**	4.6	0.020	<0.01	0.021	1.000	0.980
BH202	18	18.45	Peaty CLAY (OH): dark brown	7.6	3.8	Low	**3.8**	4.6	0.150	<0.01	**0.160**	7.600	7.600
BH202	19.5	19.95	SAND (SP): pale grey	7.3	**2.9**	Low	**4.4**	5.4	0.060	<0.01	**0.064**	3.000	3.000
BH203	0.6	0.8	SAND (SP): pale brown	7.8	5.6	Low	**2.2**	-	-	-	-	-	
BH203	1	1.45	SAND (SP): pale brown	8	5.7	Low	**2.3**	-	-	-	-	-	
BH203	1.5	1.7	SAND (SP): pale brown	7.5	5.6	Low	**1.9**	-	-	-	-	-	
BH203	2	2.2	SAND (SP): pale brown	7.2	5.7	Low	**1.5**	-	-	-	-	-	
BH203	2.5	2.95	SAND (SP): pale brown	7.2	5.7	Low	**1.5**	-	-	-	-	-	
BH203	3	3.2	SAND (SP): pale grey	7.3	5.6	Low	**1.7**	-	-	-	-	-	
BH203	3.5	3.7	SAND (SP): pale grey	7.2	5.4	Low	**1.8**	-	-	-	-	-	
BH203	4	4.45	SAND (SP): pale grey	6.6	3.9	Low	**2.7**	6.0	0.060	<0.01	**0.055**	3.000	2.600
BH203	4.5	4.7	SAND (SP): pale grey	6.8	5.5	Low	**1.3**	-	-	-	-	-	
BH203	5	5.2	SAND (SP): pale grey	6.7	5.8	Low	0.9	-	-	-	-	-	
BH203	5.5	5.95	SAND (SP): pale grey	6.6	5.4	Low	**1.2**	-	-	-	-	-	
BH203	7	7.45	SAND (SP): pale grey	6.6	3.5	Low	**3.1**	-	-	-	-	-	
BH203	8	8.35	SAND (SP): pale grey	5.9	**2.4**	Low	**3.5**	-	-	-	-	-	
BH203	8.35	8.45	Peaty SAND: dark grey and brown	5.6	**2.1**	Low	**3.5**	4.5	1.700	0.020	**1.700**	81.000	81.000
BH203	9	9.45	Silty SAND (SP): brown	6.2	**2.4**	Low	**3.8**	4.9	0.010	<0.01	0.011	<0.75	<0.75
BH203	10	10.45	Silty SAND (SP): brown	6.2	**2.5**	Low	**3.7**	-	-	-	-	-	
BH203	11	11.45	Silty SAND (SP): brown	6.2	**2.5**	Low	**3.7**	-	-	-	-	-	
BH203	12	12.45	Silty SAND (SP): brown	6.1	**2.4**	Low	**3.7**	4.6	0.020	<0.01	0.020	1.000	0.960
BH203	13	13.34	Silty SAND (SP): grey-brown	6	**2.7**	Low	**3.3**	-	-	-	-	-	
BH203	14	14.45	Silty SAND (SP): brown and dark brown	5.9	4.2	Low	**1.7**	4.7	0.030	<0.01	0.029	1.000	1.400
BH203	15	15.3	Silty SAND (SP): brown and dark brown	6.2	3.8	Low	**2.4**	-	-	-	-	-	
BH203	16	16.3	Silty SAND (SP): brown and dark brown	6	3.4	Low	**2.6**	5.1	0.020	<0.01	0.015	<0.75	<0.75
BH203	17	17.45	Peaty CLAY (OH): dark grey and brown	6	3.6	Low	**2.4**	4.5	0.030	0.010	**0.044**	2.000	2.100
BH203	18.5	18.8	Silty SAND (SP): grey-brown	5.4	**2.4**	Low	**3.0**	-	-	-	-	-	
BH203	20	20.22	Silty SAND (SP): grey	5.8	**2.8**	Low	**3.0**	4.5	0.280	0.020	**0.300**	14.000	14.000
BH204	1.5	1.7	SAND (SP): dark brown	5.3	4.7	Low	0.6	-	-	-	-	-	
BH204	2	2.2	SAND (SP): dark brown	5.3	5.5	Low	**-**	-	-	-	-	-	
BH204	2.5	2.95	SAND (SP): pale grey	5.5	5.2	Low	0.3	-	-	-	-	-	
BH204	3	3.2	SAND (SP): pale grey	5.5	5.6	Low	**-**	-	-	-	-	-	
BH204	3.5	3.7	SAND (SP): pale grey	5.8	5.9	Low	**-**	-	-	-	-	-	
BH204	4	4.45	SAND (SP): pale grey	6	5.4	Low	0.6	-	-	-	-	-	
BH204	4.5	4.7	SAND (SP): pale grey	6	5.4	Low	0.6	-	-	-	-	-	
BH204	5	5.2	SAND (SP): pale grey	6.1	5.5	Low	0.6	-	-	-	-	-	
BH204	5.5	5.95	SAND (SP): pale grey	6	5.5	Low	0.5	-	-	-	-	-	
BH204	7	7.45	SAND (SP): pale grey	6.3	6.4	Low	**-**	-	-	-	-	-	
BH204	8	8.38	Peaty SAND: grey and brown	6.2	6	Low	0.2	4.8	0.030	<0.01	**0.034**	2.000	1.600
BH204	9	9.45	Silty SAND: brown	6.3	**2.8**	Low	**3.5**	4.6	0.020	<0.01	0.020	0.900	0.940
BH204	10	10.45	Silty SAND: brown	6.3	4.4	Low	**1.9**	-	-	-	-	-	
BH204	11	11.45	Silty SAND: brown	6.3	3.6	Low	**2.7**	-	-	-	-	-	
BH204	12	12.45	SAND (SP): brown	6	3.4	Low	**2.6**	-	-	-	-	-	
BH204	13	13.3	SAND (SP): dark grey and brown	5.9	3.9	Low	**2.0**	-	-	-	-	-	
BH204	13.3	13.41	SAND (SP): dark grey and brown	6.1	3.2	Low	**2.9**	5.0	0.030	<0.01	0.029	1.000	1.400
BH204	14	14.45	SAND (SP): dark grey and brown	6.1	3.4	Low	**2.7**	-	-	-	-	-	
BH204	15	15.36	SAND (SP): brown	6.2	**2.4**	Low	**3.8**	5.2	0.020	<0.01	0.017	0.800	0.810
BH204	16	16.45	SAND (SP): brown	6.2	**2**	Low	**4.2**	5.2	0.020	<0.01	0.020	0.900	0.940
BH204	17	17.45	Peaty CLAY (OH): dark grey and brown	6	**2.2**	Low	**3.8**	4.5	0.030	0.010	**0.043**	2.000	2.000
BH204	18.5	18.87	SAND (SP): grey	6	**2.1**	Low	**3.9**	-	-	-	-	-	
BH204	20	20.4	SAND (SP): grey	6	**2.1**	Low	**3.9**	4.9	0.150	<0.01	**0.150**	7.000	7.000
BH205	8	8.3	Silty SAND (SP): grey and dark grey	5.6	**1.8**	Medium	**3.8**	5.3	0.010	<0.01	0.014	<0.75	<0.75
BH205	9	9.3	Silty SAND (SP): grey and dark grey	6.1	**2.6**	High	**3.5**	-	-	-	-	-	
BH205	10	10.45	SAND (SP): brown and dark brown	6	**2.6**	Medium	**3.4**	4.7	0.020	<0.01	0.019	0.900	0.900
BH205	11	11.3	SAND (SP): brown and dark brown	5.6	**2.8**	Medium	**2.8**	-	-	-	-	-	
BH205	12	12.3	SAND (SP): brown, grey and pale brown	6.2	**2.5**	Medium	**3.7**	5.1	0.010	<0.01	0.015	<0.75	<0.75

Table J4: Acid Sulphate Soil Results

Sample Information				Screening Test Results				Laboratory Analysis Results (Acid Base Accounting)					
Location ID	Depth from (m)	Depth to (m)	Sample Description	pH_F (pH units)	pH_{FOX} (pH units)	Reaction Strength	pH change (pH units)	pH_{KCl} (pH units)	Scr (%S)	s-TAA (%S)	s-Net Acidity Acidity without ANC (%S)	Liming Rate with ANCE (kg CaCO3/tonne)	Liming Rate without ANCE (kg CaCO3/tonne)
BH205	13	13.45	SAND (SP): brown, grey and pale brown	5.4	**2.7**	High	**2.7**	-	-	-	-	-	
BH205	14	14.3	SAND (SP): brown, grey and pale brown	5.9	**1.8**	Extreme	**4.1**	5.1	0.008	<0.01	0.010	<0.75	<0.75
BH205	15	15.45	SAND (SP): brown, grey and pale brown	5.9	**1.8**	High	**4.1**	-	-	-	-	-	
BH205	16	16.45	SAND (SP): brown, grey and pale brown	5.5	**1.7**	Volcanic	**3.8**	4.7	0.020	<0.01	0.019	0.900	0.900
BH205	17	17.45	Peaty Silty CLAY (CL-CI): dark grey	5.5	**2**	Extreme	**3.5**	4.5	0.020	<0.01	0.028	1.000	1.300
BH206	0.5	0.7	SAND (SP): pale grey	5.1	4.5	Medium	0.6	-	-	-	-	-	
BH206	1	1.45	SAND (SP): pale grey	5.2	4.4	Medium	0.8	5.4	<0.005	<0.01	<0.005	<0.75	<0.75
BH206	1.5	1.7	SAND (SP): pale grey	5.4	4.5	Medium	0.9	-	-	-	-	-	
BH206	2	2.2	SAND (SP): pale grey	5.2	4.6	Medium	0.6	-	-	-	-	-	
BH206	2.5	2.95	SAND (SP): pale grey	5.4	4.8	Medium	0.6	-	-	-	-	-	
BH206	3	3.2	SAND (SP): pale grey	5.3	4.7	Medium	0.6	5.3	<0.005	<0.01	<0.005	<0.75	<0.75
BH206	3.5	3.7	SAND (SP): pale grey	5.3	4.8	Medium	0.5	-	-	-	-	-	
BH206	4	4.45	SAND (SP): pale grey	6	5	Medium	**1.0**	-	-	-	-	-	
BH206	4.5	4.7	SAND (SP): pale grey	6.5	5.1	Medium	**1.4**	-	-	-	-	-	
BH206	5	5.2	SAND (SP): pale grey	6.3	5.4	Medium	0.9	-	-	-	-	-	
BH206	5.5	5.95	SAND (SP): pale grey	6.5	5.2	Medium	**1.3**	6.0	<0.005	<0.01	<0.005	<0.75	<0.75
BH206	6.5	6.95	Silty SAND (SM): grey	6.6	5.3	Medium	**1.3**	-	-	-	-	-	
BH206	8	8.35	Silty SAND (SM): grey	6.7	4.5	Medium	**2.2**	5.8	0.005	<0.01	0.005	<0.75	<0.75
BH206	8.35	8.45	Silty SAND (SM): grey	6.6	**2.9**	Extreme	**3.7**	4.6	0.020	<0.01	0.028	1.000	1.300
BH206	9.5	9.8	Silty SAND (SM): grey	6.6	**2.8**	Medium	**3.8**	5.1	0.010	<0.01	0.011	<0.75	<0.75
BH206	11	11.45	Silty SAND (SM): brown	6.3	**2.4**	High	**3.9**	4.9	0.009	<0.01	0.011	<0.75	<0.75
BH206	12.5	12.73	Silty SAND (SM): brown	6	**2.3**	High	**3.7**	5.2	0.008	<0.01	0.009	<0.75	<0.75
BH206	14	14.45	Silty SAND (SM): brown	5.9	3.6	Medium	**2.3**	-	-	-	-	-	
BH206	15	15.45	Silty SAND (SM): brown	5.9	**2.8**	High	**3.1**	5.1	0.010	<0.01	0.010	<0.75	<0.75
BH206	16.5	16.95	Peaty CLAY (OH): dark grey	5.3	**2.8**	Medium	**2.5**	4.5	0.090	0.030	**0.120**	6.000	5.600
BH206	18	18.3	SAND (SP): brown and grey	5.9	**1.4**	Extreme	**4.5**	5.2	0.030	<0.01	0.026	1.000	1.200
BH206	19.5	19.88	SAND (SP): brown and grey	6.5	3.5	Medium	**3.0**	5.4	<0.005	<0.01	<0.005	<0.75	<0.75
BH207	0.5	0.7	SAND (SP): pale brown	5.2	3.8	Low	**1.4**	5.1	0.010	<0.01	0.016	0.800	0.770
BH207	1	1.45	SAND (SP): pale grey and brown	5.5	5.3	Low	0.2	-	-	-	-	-	
BH207	1.5	1.7	SAND (SP): pale grey and brown	5.6	5	Low	0.6	-	-	-	-	-	
BH207	2	2.2	SAND (SP): pale grey and brown	5.5	5	Low	0.5	-	-	-	-	-	
BH207	2.5	2.95	SAND (SP): pale yellow-brown	5.6	5	Low	0.6	-	-	-	-	-	
BH207	3	3.2	SAND (SP): pale yellow-brown	5.5	4.9	Low	0.6	5.2	0.007	<0.01	0.009	<0.75	<0.75
BH207	3.5	3.7	SAND (SP): pale yellow-brown	5.6	5.1	Low	0.5	-	-	-	-	-	
BH207	4	4.45	SAND (SP): pale grey	5.7	5.5	Low	0.2	-	-	-	-	-	
BH207	4.5	4.7	SAND (SP): pale grey	6.6	5.8	Low	0.8	-	-	-	-	-	
BH207	5	5.2	SAND (SP): pale grey	6.2	5.9	Low	0.3	-	-	-	-	-	
BH207	5.5	5.95	SAND (SP): pale grey	6.5	5.9	Low	0.6	-	-	-	-	-	
BH207	6.5	6.95	SAND (SP): pale grey	6.7	5.9	Low	0.8	-	-	-	-	-	
BH207	8	8.45	SAND (SP): dark grey and grey	6.5	3.8	Low	**2.7**	-	-	-	-	-	
BH207	9	9.45	Silty SAND (SM): brown	6.6	4.7	Low	**1.9**	4.9	0.010	<0.01	0.013	<0.75	<0.75
BH207	10	10.45	Silty SAND (SM): brown	6.6	4.6	Low	**2.0**	-	-	-	-	-	
BH207	11	11.45	Silty SAND (SM): brown	6.2	3.3	Low	**2.9**	5.0	0.010	<0.01	0.012	<0.75	<0.75
BH207	12	12.45	Silty SAND (SM): brown	6.8	3.1	Low	**3.7**	4.9	0.090	<0.01	**0.092**	4.000	4.300
BH207	13	13.45	Silty SAND (SM): pale grey-brown	6.3	3.8	Low	**2.5**	-	-	-	-	-	
BH207	14	14.45	Silty SAND (SM): pale grey-brown	6.3	4.2	Low	**2.1**	-	-	-	-	-	
BH207	15	15.45	Peaty CLAY (OH): dark grey	5.9	4.3	Low	**1.6**	-	-	-	-	-	
BH207	16	16.2	Peaty CLAY (OH): dark grey	5.8	3.9	Low	**1.9**	4.8	0.140	<0.01	**0.140**	7.000	6.800
BH207	16.2	16.45	Silty SAND (SP): grey	5.3	3	Low	**2.3**	4.5	0.290	0.020	**0.310**	15.000	15.000
BH207	17	17.45	Silty SAND (SP): grey-brown	6	3	Low	**3.0**	4.6	0.070	<0.01	**0.075**	4.000	3.500
BH207	18.5	18.89	Silty SAND (SP): grey-brown	6.1	5.7	Low	0.4	-	-	-	-	-	
BH207	20	20.38	Silty SAND (SP): grey-brown	6.2	4.6	Low	**1.6**	5.5	0.006	<0.01	0.006	<0.75	<0.75
BH208	1.8	2	SAND (SP): pale grey	6	5.9	Low	0.1	-	-	-	-	-	
BH208	2.3	2.5	SAND (SP): pale grey	6	5.1	Low	0.9	6.1	<0.005	<0.01	<0.005	<0.75	<0.75
BH208	2.8	3	SAND (SP): pale grey	6.3	6.7	Low	-	-	-	-	-	-	
BH208	3.3	3.5	SAND (SP): grey	6.4	6.2	Low	0.2	-	-	-	-	-	
BH208	3.8	4	Silty SAND (SM): dark brown	6.5	6.3	Low	0.2	-	-	-	-	-	
BH208	4.3	4.5	Silty SAND (SM): dark brown	6.1	5.8	Low	0.3	5.2	0.010	<0.01	0.017	0.800	0.790
BH208	4.8	5	Silty SAND (SM): dark brown	6.4	6.3	Low	0.1	-	-	-	-	-	
BH208	5.3	5.5	Silty SAND (SM): dark brown	6.5	6.2	Low	0.3	-	-	-	-	-	
BH208	6.5	6.95	Silty SAND (SM): brown	6.8	6.3	Low	0.5	6.4	0.010	<0.01	0.012	<0.75	<0.75
BH208	7.5	7.95	Silty SAND (SM): dark brown	6.8	5.2	Low	**1.6**	5.6	0.030	<0.01	0.026	1.000	1.200
BH208	8.5	8.95	SAND (SP): pale grey	6.6	3.8	Low	**2.8**	5.8	0.008	<0.01	0.008	<0.75	<0.75
BH208	10.5	10.75	SAND (SP): pale grey	6.7	4.2	Low	**2.5**	-	-	-	-	-	
BH208	11.5	11.8	SAND (SP): pale grey	6.4	4.1	Low	**2.3**	4.7	0.020	<0.01	0.021	1.000	1.000
BH208	12.5	12.85	SAND (SP): pale grey	6.2	3.2	Low	**3.0**	4.7	0.040	<0.01	**0.042**	2.000	2.000
BH208	13.5	13.6	SAND (SP):grey	5	4.6	Low	0.4	4.9	0.008	<0.01	0.012	<0.75	<0.75
BH208	13.6	13.95	SAND (SP):grey	6.2	3	Low	**3.2**	-	-	-	-	-	
BH208	14.5	14.85	SAND (SP):grey	6.1	3	Low	**3.1**	-	-	-	-	-	
BH208	15.5	15.95	Peaty CLAY (OH): dark grey	5.9	3.3	Low	**2.6**	4.5	0.040	0.010	**0.052**	2.000	2.400
BH208	17	17.45	Silty SAND (SM): grey and brown	6.2	**2.7**	Low	**3.5**	4.5	0.160	<0.01	**0.170**	8.100	8.100
BH208	18.5	18.95	Silty SAND (SM): grey and brown	6.1	4.2	Low	**1.9**	5.6	0.010	<0.01	0.012	<0.75	<0.75
BH209	6.5	6.95	SAND (SP): pale grey-brown	6.5	4.5	Medium	**2.0**	6.3	0.005	<0.01	0.005	<0.75	<0.75
BH209	8	8.3	Silty SAND (SM): brown and dark brown	6	3.4	Medium	**2.6**	-	-	-	-	-	
BH209	9	9.45	Silty SAND (SM): brown and dark brown	6.7	**2.8**	High	**3.9**	5.0	0.050	<0.01	**0.048**	2.000	2.300
BH209	10	10.45	Silty SAND (SM): brown and dark brown	6.6	**2.6**	Medium	**4.0**	-	-	-	-	-	
BH209	11	11.3	Silty SAND (SM): grey-brown	6.5	**2.4**	Medium	**4.1**	-	-	-	-	-	
BH209	12	12.45	Silty SAND (SM): brown	6.7	**2.7**	Medium	**4.0**	5.2	0.030	<0.01	0.026	1.000	1.200
BH209	13	13.45	Silty SAND (SM): brown	6.6	5	Medium	**1.6**	-	-	-	-	-	
BH209	14	14.3	Silty SAND (SM): pale grey-brown	6.5	4.8	Medium	**1.7**	-	-	-	-	-	
BH209	15	15.2	Peaty CLAY (OH): dark grey	7.1	3.7	Medium	**3.4**	4.9	0.090	0.020	**0.110**	5.000	5.200
BH209	15.2	15.45	Peaty CLAY (OH): dark grey	7	3.1	Medium	**3.9**	-	-	-	-	-	
BH209	16.5	16.73	SAND (SP): grey-brown	6.6	4.6	Medium	**2.0**	-	-	-	-	-	
BH209	18	18.25	SAND (SP): grey-brown	6.7	4.8	Medium	**1.9**	5.9	<0.005	<0.01	<0.005	<0.75	<0.75
BH209	19.5	19.95	SAND (SP): grey	6.6	4.7	High	**1.9**	5.8	0.006	<0.01	0.006	<0.75	<0.75

Table J4: Acid Sulphate Soil Results

Sample Information				Screening Test Results				Laboratory Analysis Results (Acid Base Accounting)					
Location ID	Depth from (m)	Depth to (m)	Sample Description	pH_F (pH units)	pH_{FOX} (pH units)	Reaction Strength	pH change (pH units)	pH_{KCl} (pH units)	Scr (%S)	s-TAA (%S)	s-Net Acidity Acidity without ANC (%S)	Liming Rate with ANCE (kg CaCO3/tonne)	Liming Rate without ANCE (kg CaCO3/tonne)
BH210	7	7.45	SAND (SP): grey and dark grey	6.9	**2.4**	Volcanic	**4.5**	6.4	0.010	<0.01	0.011	<0.75	<0.75
BH210	8.5	8.95	Silty SAND (SM): brown and dark brown	6.8	3.3	Volcanic	**3.5**	5.3	0.020	<0.01	0.018	0.900	0.860
BH210	9.5	9.95	Silty SAND (SM): brown and dark brown	6.6	**2.1**	High	**4.5**	5.0	0.060	<0.01	**0.062**	3.000	2.900
BH210	10.5	10.8	Silty SAND (SM): brown and dark brown	6.8	3.3	Medium	**3.5**	-	-	-	-	-	
BH210	11.5	11.95	Silty SAND (SM): pale brown and pale grey	6.7	4.5	Medium	**2.2**	-	-	-	-	-	
BH210	12.5	12.8	Silty SAND (SM): pale brown and pale grey	6.8	4.2	Medium	**2.6**	5.5	<0.005	<0.01	<0.005	<0.75	<0.75
BH210	13.5	13.6	Silty SAND (SM): pale brown and pale grey	6.9	4.6	Medium	**2.3**	4.6	<0.005	<0.01	0.007	<0.75	<0.75
BH210	13.6	13.95	Peaty CLAY (OH): dark grey	6	3	Extreme	**3.0**	-	-	-	-	-	
BH210	14.5	14.73	SAND (SP): grey and brown	6.7	3.1	High	**3.6**	5.7	<0.005	<0.01	<0.005	<0.75	<0.75
BH210	15.5	15.72	SAND (SP): grey and brown	6.5	4.2	Medium	**2.3**	-	-	-	-	-	
BH210	16.5	16.77	SAND (SP): grey and brown	6.6	4	Medium	**2.6**	5.8	0.010	<0.01	0.010	<0.75	<0.75
BH210	18	18.2	SAND (SP): grey and brown	6.4	**2.8**	High	**3.6**	-	-	-	-	-	
BH210	18.2	18.41	SAND (SP): grey	6.9	**2**	Extreme	**4.9**	5.1	0.010	<0.01	0.016	0.800	0.770
BH210	19.5	19.74	SAND (SP): grey	6.5	4.5	Medium	**2.0**	5.6	0.008	<0.01	0.008	<0.75	<0.75
BH302	2.3	2.5	SAND (SP): pale grey	4.8	3.9	Low	0.9	5.3	<0.005	<0.01	<0.005	<0.75	<0.75
BH302	2.8	3	SAND (SP): pale grey	4.6	3.9	Low	0.7	5.2	<0.005	<0.01	<0.005	<0.75	<0.75
BH302	3.8	4	SAND (SP): pale grey	4.9	4.4	Low	0.5	5.3	0.020	<0.01	0.016	0.800	0.750
BH302	4.8	5	SAND (SP): pale grey	5.9	5.1	Low	0.8	-	-	-	-	-	
BH302	5.8	6	SAND (SP): pale grey	5.6	4.9	Low	0.7	-	-	-	-	-	
BH302	6.8	7	SAND (SP): pale grey	6.2	4.7	Low	**1.5**	-	-	-	-	-	
BH302	7.8	8	SAND (SP): pale grey	6	4.3	Low	**1.7**	5.5	<0.005	<0.01	<0.005	<0.75	<0.75
BH302	8.8	9	SAND (SP): pale grey	6.1	4.4	Low	**1.7**	-	-	-	-	-	
BH302	9.8	10	SAND (SP): dark grey	6.1	3.6	Low	**2.5**	5.6	<0.005	<0.01	<0.005	<0.75	<0.75
BH302	10.8	11	SAND (SP): dark grey	5.3	**2.6**	High	**2.7**	4.5	0.006	<0.01	0.011	<0.75	<0.75
BH302	11.5	11.6	CLAY (CI-CH): dark grey	5.1	**2.5**	High	**2.6**	-	-	-	-	-	
BH305	2	2.2	SAND (SP): pale grey	5.9	4.4	High	**1.5**	5.2	<0.005	<0.01	<0.005	<0.75	<0.75
BH305	2.8	3	SAND (SP): pale grey	6.2	4.8	High	**1.4**	-	-	-	-	-	
BH305	3.8	4	SAND (SP): pale grey	7	5.5	High	**1.5**	-	-	-	-	-	
BH305	4.8	5	SAND (SP): pale grey	8.8	6.1	Extreme	**2.7**	-	-	-	-	-	
BH305	5.8	6	SAND (SP): pale grey	7.5	5.3	High	**2.2**	5.7	0.008	<0.01	0.008	<0.75	<0.75
BH305	6.8	7	SAND (SP): pale grey	7.4	5.7	High	**1.7**	-	-	-	-	-	
BH308	9.8	10	SAND (SP): dark grey	5.7	3	High	**2.7**	4.8	0.006	<0.01	0.011	<0.75	<0.75
BH308	10.8	11	CLAY (CI-CH): dark grey	5.7	3	High	**2.7**	4.8	0.008	<0.01	0.011	<0.75	<0.75
BH311	3.4	3.6	SAND (SP): pale grey	6.4	4.3	Medium	**2.1**	-	-	-	-	-	
BH311	4.4	4.6	SAND (SP): pale grey	6.7	4.5	Medium	**2.2**	-	-	-	-	-	
BH311	5.4	5.6	SAND (SP): grey	7	4.8	Medium	**2.2**	-	-	-	-	-	
BH311	6.4	6.6	SAND (SP): pale grey	7.8	5.3	Medium	**2.5**	-	-	-	-	-	
BH311	7.4	7.6	SAND (SP): dark brown	6.6	4	Medium	**2.6**	-	-	-	-	-	
BH311	8.4	8.6	SAND (SP): dark brown	6.5	3.9	Medium	**2.6**	-	-	-	-	-	
BH311	9.4	9.6	SAND (SP): dark brown	6.2	**2.7**	High	**3.5**	-	-	-	-	-	
BH312	4.8	5	SAND (SP): pale grey	7.3	5.5	Medium	**1.8**	5.7	0.006	<0.01	0.006	<0.75	<0.75
BH312	5.8	6	SAND (SP): pale grey	7.5	5.6	Extreme	**1.9**	-	-	-	-	-	
BH312	6.8	7	SAND (SP): dark grey	5.9	3.4	High	**2.5**	-	-	-	-	-	
BH312	7.8	8	SAND (SP): dark grey	5.8	**2.9**	High	**2.9**	5.1	0.006	<0.01	0.007	<0.75	<0.75
BH312	8.8	9	SAND (SP): dark grey	6.1	3.3	Medium	**2.8**	-	-	-	-	-	
BH312	9.8	10	SAND (SP): dark grey	6.5	3.8	High	**2.7**	-	-	-	-	-	
BH312	10.8	11	Sandy CLAY (CL sa): dark grey	6	3.2	High	**2.8**	4.7	0.007	<0.01	0.013	<0.75	<0.75
BH316	1.4	1.6	SAND (SP): pale grey and yellow	4.9	4	Low	0.9	5.1	<0.005	<0.01	<0.005	<0.75	<0.75
BH316	1.8	2	SAND (SP): pale grey	5.1	4.1	Low	**1.0**	-	-	-	-	-	
BH316	2.8	3	SAND (SP): pale grey	5.4	4.4	Medium	**1.0**	-	-	-	-	-	
BH316	3.8	4	SAND (SP): pale grey	6.9	5	High	**1.9**	-	-	-	-	-	
BH316	4.8	5	SAND (SP): pale grey	4.9	4.4	Low	0.5	4.5	0.008	<0.01	0.014	<0.75	<0.75
BH316	5.8	6	SAND (SP): pale grey	6.4	5.2	Low	**1.2**	-	-	-	-	-	
BH316	6.8	7	SAND (SP): dark grey	6	3.3	Low	**2.7**	-	-	-	-	-	
BH316	7.8	8	SAND (SP): dark grey	5.8	3	Medium	**2.8**	4.7	0.020	<0.01	0.022	1.000	1.000
BH316	8.8	9	SAND (SP): dark grey	5.4	3.2	Medium	**2.2**	-	-	-	-	-	
BH316	9.8	10	CLAY (CI-CH): dark grey	5.8	**2.7**	High	**3.1**	4.5	<0.005	0.020	0.018	0.800	0.830
BH317	4.6	4.8	SAND (SP): pale grey	4.5	3.5	Low	**1.0**	4.7	0.008	0.010	0.018	0.800	0.830
BH318	1.5	1.7	SAND (SP): pale grey	4.7	3.5	Low	**1.2**	-	-	-	-	-	
BH318	2	2.2	SAND (SP): pale grey	4.9	3.9	Low	**1.0**	-	-	-	-	-	
BH318	2.5	2.7	SAND (SP): pale grey	5	4.1	Low	0.9	5.4	<0.005	<0.01	<0.005	<0.75	<0.75
BH318	3.5	3.7	SAND (SP): pale grey	5.7	4.6	Low	**1.1**	5.6	<0.005	<0.01	<0.005	<0.75	<0.75
BH318	4.5	4.7	SAND (SP): pale grey	6.3	5.1	Low	**1.2**	-	-	-	-	-	
BH318	4.8	5	SAND (SP): pale grey	6.4	5.4	Low	**1.0**	-	-	-	-	-	
BH318	5.8	6	SAND (SP): pale grey	6.7	5.2	Low	**1.5**	-	-	-	-	-	
BH318	6.8	7	SAND (SP): dark brown	6.1	**2.6**	Low	**3.5**	5.3	0.010	<0.01	0.016	0.800	0.770
BH318	7.8	8	SAND (SP): dark brown	6	3.2	Low	**2.8**	-	-	-	-	-	
BH319	0.5	0.7	FILL/SAND: grey to dark grey	7.7	5.2	Low	**2.5**	-	-	-	-	-	
BH319	1.1	1.3	FILL/SAND: brown and dark grey	7.2	5.1	Low	**2.1**	-	-	-	-	-	
BH319	1.4	1.6	SAND (SP): pale grey and yellow	7.1	5	Low	**2.1**	6.0	<0.005	<0.01	0.007	<0.75	<0.75
BH319	1.9	2.1	SAND (SP): pale grey	7	5.3	Low	**1.7**	-	-	-	-	-	
BH319	2.8	3	SAND (SP): pale grey	7.1	5.6	Low	**1.5**	-	-	-	-	-	
BH319	3.8	4	SAND (SP): pale grey	7	5.3	Low	**1.7**	-	-	-	-	-	
BH319	4.8	5	SAND (SP): pale grey	7	5.4	Low	**1.6**	-	-	-	-	-	
BH319	5.8	6	SAND (SP): pale grey	6.5	5.5	High	**1.0**	-	-	-	-	-	
BH319	6.8	7	SAND (SP): dark brown	6.6	3.3	High	**3.3**	-	-	-	-	-	
BH319	7.8	8	SAND (SP): dark brown	6.4	3.2	High	**3.2**	-	-	-	-	-	
BH327	1	1.2	SAND (SP): pale grey	5	4.3	Extreme	0.7	5.4	<0.005	<0.01	<0.005	<0.75	<0.75
BH327	1.8	2	SAND (SP): pale grey	5.1	4.7	Medium	0.4	-	-	-	-	-	
BH327	2.8	3	SAND (SP): pale grey	5.3	4.3	Medium	**1.0**	-	-	-	-	-	
BH327	3.8	4	SAND (SP): pale grey and yellow	5.6	4.4	Medium	**1.2**	-	-	-	-	-	
BH327	4.8	5	SAND (SP): pale grey	6.1	5	Medium	**1.1**	5.5	<0.005	<0.01	<0.005	<0.75	<0.75
BH327	5.8	6	SAND (SP): pale grey	7.1	5.6	Medium	**1.5**	-	-	-	-	-	
BH327	6.8	7	SAND (SP): dark grey	6.9	3.9	Medium	**3.0**	-	-	-	-	-	
BH327	7.8	8	SAND (SP): dark grey	6.4	3.4	High	**3.0**	4.8	0.009	<0.01	0.013	<0.75	<0.75

Table J4: Acid Sulphate Soil Results

Sample Information				Screening Test Results				Laboratory Analysis Results (Acid Base Accounting)					
Location ID	Depth from (m)	Depth to (m)	Sample Description	pH_F (pH units)	pH_{FOX} (pH units)	Reaction Strength	pH change (pH units)	pH_{KCl} (pH units)	Scr (%S)	s-TAA (%S)	s-Net Acidity Acidity without ANC (%S)	Liming Rate with ANCE (kg CaCO3/tonne)	Liming Rate without ANCE (kg CaCO3/tonne)
BH327	8.8	9	SAND (SP): dark grey	6.2	3.5	Medium	**2.7**	-	-	-	-	-	
BH328B	6.8	7	SAND (SP): pale grey	6.7	3.7	High	**3.0**	-	-	-	-	-	
BH328B	7.8	8	SAND (SP): pale grey	6.8	3.6	High	**3.2**	-	-	-	-	-	
BH328C	6.8	7	SAND (SP): pale grey	7	**2.9**	Medium	**4.1**	-	-	-	-	-	
BH328C	7.8	8	SAND (SP): pale grey	7.1	3.5	Medium	**3.6**	-	-	-	-	-	
BH329C	4.1	4.3	SAND (SP): pale grey	6.1	3.4	Medium	**2.7**	-	-	-	-	-	
BH329C	4.6	4.8	SAND (SP): pale grey	6.7	3.8	High	**2.9**	-	-	-	-	-	
BH329C	5.1	5.3	SAND (SP): grey	7.8	5.7	High	**2.1**	-	-	-	-	-	
BH329C	5.6	5.8	SAND (SP): grey	7.5	4.3	High	**3.2**	6.0	<0.005	<0.01	<0.005	<0.75	<0.75
BH329C	6.4	6.6	SAND (SP): grey	7.3	4.5	High	**2.8**	-	-	-	-	-	
BH329C	6.8	7	SAND (SP): dark grey	6.9	3.2	High	**3.7**	5.9	0.008	<0.01	0.008	<0.75	<0.75
BH329C	7.8	8	SAND (SP): dark grey	6.8	4.2	Low	**2.6**	-	-	-	-	-	
BH331	6.3	6.5	SAND (SP): dark brown	6.4	3.1	Low	**3.3**	-	-	-	-	-	
BH331	6.8	7	SAND (SP): dark brown	6.6	**2.9**	Low	**3.7**	5.5	0.010	<0.01	0.016	<0.75	<0.75
BH331	7.3	7.5	SAND (SP): dark brown	6.7	3.4	Low	**3.3**	-	-	-	-	-	
BH331	7.8	8	SAND (SP): dark brown	6.9	3	Low	**3.9**	-	-	-	-	-	
BH331	8.3	8.5	SAND (SP): dark brown	6.9	3.1	Low	**3.8**	5.6	0.020	<0.01	0.020	0.900	0.940
BH331	8.8	9	SAND (SP): dark brown	6.9	3.9	Low	**3.0**	-	-	-	-	-	
BH333	5.8	6	SAND (SP): pale brown	7.5	**2.3**	Low	**5.2**	4.9	0.010	<0.01	0.014	<0.75	<0.75
BH333	6.5	6.7	SAND (SP): pale brown	7.4	3.9	Low	**3.5**	-	-	-	-	-	
BH333	6.8	7	SAND (SP): pale brown	7.4	3.9	Low	**3.5**	-	-	-	-	-	
BH333	7.3	7.5	SAND (SP): pale brown	7.6	3.8	Low	**3.8**	-	-	-	-	-	
BH334	6	6.2	SAND (SP): dark brown	7.8	3.8	Low	**4.0**	-	-	-	-	-	
BH334	6.3	6.5	SAND (SP): dark brown	7.6	3.6	Low	**4.0**	6.3	0.010	<0.01	0.013	<0.75	<0.75
BH334	6.8	7	SAND (SP): dark brown	7.1	3.2	Low	**3.9**	-	-	-	-	-	
BH334	7.3	7.5	SAND (SP): dark brown	7.4	3	Low	**4.4**	5.2	0.020	<0.01	0.026	1.000	1.200
BH334	7.8	8	SAND (SP): dark brown	7.4	3.2	Low	**4.2**	-	-	-	-	-	
Assessment Sceening Criteria (pH units)				**<4**	**<3**	-	**1.0**	Action Criteria (%S) - Coarse texture: sands to loamy sands and peats			**0.03**	-	-

Notes:

Adopted texutre - C = coarse, M = medium, F = fine

pH_F - Soil pH in water

pH_{FOX} - Soil pH in peroxide

Reaction strength: L - Low , M - Medium, H - High, X - Extreme, V - Volcanic, F - Frothing (indicative of organic material)

pH change = pH_F - pH_{FOX}

pH_{KCL} - KCl extractable pH

S_{KCl} - KCl extractable sulfur

S_{cr} - potential sulfidic acidity

TAA - titratable actual acidity (reported if pH_{KCL}<6.5)

ANC_{BT} – acid neutralising capacity (reported if $pH_{KCl} \geq 6.5$)

NT - Not tested

Bold results are indicators of ASS conditions, noting:

- Assessment criteria are considered a reasonable initial screening for AASS or PASS
- $pH_F \leq 4$ is indicative of the presence of Actual ASS (AASS), although it is not conclusive of ASS on its own as naturally occurring non ASS soils can have $pH_F \leq 5$
- pH_{FOX}<3 or pH Change ≥1 may indicate potential ASS (PASS), although exception apply. Laboratory testing required to confirm presence of Reduced Inorganic Sulfur (RIS)
- Refer to Table 5.1, A2, A3 of Sullivan,L. et al (2018) for further details

Shaded results exceed the action criteria. Criteria specific for soil texture and anticpated tonnage of soil disturbed to be more than 1,000 tonnes.

Net Acidity can only include the measured ANC where the ANC has been corroborated by other data (for example slab incubation data) that demonstrates the soil material does not experience acidification

The action criteria apply only to ASS materials and not to other acidic soils such as acidic peatlands and coastal heaths.

Appendix K

Laboratory Documentation

Appendix K1

Soil

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 330940

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	20 Soil
Date samples received	18/08/2023
Date completed instructions received	18/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	25/08/2023
Date of Issue	25/08/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean, Anthony Clark
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Lucy Zhu, Asbestos Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

Asbestos ID - soils NEPM						
Our Reference		330940-1	330940-2	330940-3	330940-4	330940-5
Your Reference	UNITS	CPT101	CPT102	CPT103	CPT104	CPT105
Depth		0.15-0.25	0.13-0.2	0.03-0.1	0.18-0.25	0.15-0.25
Date Sampled		31/07/23	7/08/23	31/07/23	1/08/23	3/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	464.05	885.89	1,304.93	753.86	1,115.05
Sample Description	-	Black fine-grained soil & rocks	Brown fine-grained soil & rocks	Grey coarse-grained soil & rocks	Black coarse-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330940-6	330940-7	330940-8	330940-9	330940-10
Your Reference	UNITS	CPT106	CPT107	CPT108	CPT109	CPT110
Depth		0.15-0.25	0.16-0.25	0.2-0.3	0.17-0.3	0.17-0.3
Date Sampled		2/08/23	2/08/23	1/08/23	2/08/23	3/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	861.53	987.7	545.81	1,042.33	1,028.65
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Grey coarse-grained soil & rocks	Brown fine-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330940-11	330940-12	330940-13	330940-14	330940-15
Your Reference	UNITS	CPT111	CPT112	CPT113	CPT114	CPT115
Depth		0.15-0.25	0.17-0.3	0.15-0.25	0.2-0.3	0.15-0.25
Date Sampled		4/08/23	7/08/23	7/08/23	4/08/23	4/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	1,215.92	1,015.94	685.56	1,265.16	1,046.19
Sample Description	-	Beige sandy soil & rocks	Brown fine-grained soil & rocks	Black coarse-grained soil & rocks	Grey fine-grained soil & rocks	Beige sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Synthetic mineral fibre detected Organic fibre detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	1.9085	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	See Above	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	1.3084	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	0.1908	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330940-16	330940-17	330940-18	330940-19	330940-20
Your Reference	UNITS	CPT116	CPT117	CPT118	CPT119	CPT120
Depth		0.09-0.2	0.17-0.3	0.15-0.25	0.16-0.25	0.13-0.25
Date Sampled		8/08/2023	8/08/23	3/08/23	8/08/23	31/07/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	895.95	874.56	1,096.55	1,166.08	1,154.23
Sample Description	-	Brown sandy soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibre detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	3.4687	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above	Amosite	Amosite	No visible asbestos detected
ACM >7mm Estimation*	g	–	2.9805	–	–	–
FA and AF Estimation*	g	–	0.0531	0.0001	0.0174	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.0061	<0.001	0.0015	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 330940-13; Chrysotile & Amosite asbestos identified in 1.8691g of fibrous matted material
Sample 330940-17; Chrysotile, Amosite & Crocidolite asbestos identified in 19.8700g of fibre cement material >7mm
Sample 330940-17; Chrysotile & Amosite asbestos identified in 0.0531g of fibrous matted material
Sample 330940-18; Amosite asbestos identified in 0.0001g of loose fibre bundles
Sample 330940-19; Amosite asbestos identified in 0.0174g of loose fibre bundles

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	330940
Date Sample Received	18/08/2023
Date Instructions Received	18/08/2023
Date Results Expected to be Reported	25/08/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	20 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Asbestos ID - soils NEPM
CPT101-0.15-0.25	✓
CPT102-0.13-0.2	✓
CPT103-0.03-0.1	✓
CPT104-0.18-0.25	✓
CPT105-0.15-0.25	✓
CPT106-0.15-0.25	✓
CPT107-0.16-0.25	✓
CPT108-0.2-0.3	✓
CPT109-0.17-0.3	✓
CPT110-0.17-0.3	✓
CPT111-0.15-0.25	✓
CPT112-0.17-0.3	✓
CPT113-0.15-0.25	✓
CPT114-0.2-0.3	✓
CPT115-0.15-0.25	✓
CPT116-0.09-0.2	✓
CPT117-0.17-0.3	✓
CPT118-0.15-0.25	✓
CPT119-0.16-0.25	✓
CPT120-0.13-0.25	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampl**	LS		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☐ Esky ☑ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes		(If YES, then handle, transport and store in accordance with FPM HAZID)

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: AF/FA										Notes/ Preservation/ Additional Requirements
1	CPT101	0.15	0.25	31/07/23	S	B	x										
2	CPT102	0.13	0.2	7/08/23	S	B	x										
3	CPT103	0.03	0.1	31/07/23	S	B	x										
4	CPT104	0.18	0.25	1/08/23	S	B	x										
5	CPT105	0.15	0.25	3/08/23	S	B	x										
6	CPT106	0.15	0.25	2/08/23	S	B	x										
7	CPT107	0.16	0.25	2/08/23	S	B	x										
8	CPT108	0.2	0.3	1/08/23	S	B	x										
9	CPT109	0.17	0.3	2/08/23	S	B	x										
10	CPT110	0.17	0.3	3/08/23	S	B	x										
11	CPT111	0.15	0.25	4/08/23	S	B	x										
12	CPT112	0.17	0.3	7/08/23	S	B	x										
13	CPT113	0.15	0.25	7/08/23	S	B	x										
14	CPT114	0.2	0.3	4/08/23	S	B	x										

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 330940
Date Received: 18/8/23
Time Received: 1545
Received By: JC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666
Relinquished by:	Nathan Woodward, 2:30pm, 18/8/23	**Date:**	18/08/2023 **Signed:**

LAB RECEIPT

Lab Ref. No:	330940
Received by:	18/8/23 @1545
Date & Time:	DA HYLLN LEE
Signed:	

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 18/08/2023

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - glass P - plastic B - bag	Analytes: AF/FA										Notes/ Preservation/ Additional Requirements
15	CPT115	0.15	0.25	4/08/23	S	B	x										
16	CPT116	0.09	0.2	#######	S	B	x										
17	CPT117	0.17	0.3	8/08/23	S	B	x										
18	CPT118	0.15	0.25	3/08/23	S	B	x										
19	CPT119	0.16	0.25	8/08/23	S	B	x										
20	CPT120	0.13	0.25	31/07/23	S	B	x										
																	#330940 18/8/23 @ 1545

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 330992

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	277 Soil, 2 Material
Date samples received	18/08/2023
Date completed instructions received	21/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	28/08/2023
Date of Issue	13/09/2023
Reissue Details	This report replaces R00 created on 29/08/2023 due to: revised report with repeat result reported for #265 TRH and PAH.

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Inorganics Supervisor
Greta Petzold, Operation Manager
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Lucy Zhu, Asbestos Supervisor
Phalak Inthakesone, Organics Development Manager, Sydney
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil						
Our Reference		330992-18	330992-20	330992-26	330992-38	330992-39
Your Reference	UNITS	302	302	303	304	304
Depth		9.8-10	11.5-11.6	2.6-2.8	4.3-4.5	4.8-5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	25/08/2023	25/08/2023	25/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-18	330992-20	330992-26	330992-38	330992-39
Your Reference	UNITS	302	302	303	304	304
Depth		9.8-10	11.5-11.6	2.6-2.8	4.3-4.5	4.8-5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	13
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	60
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	13
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	2
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	4
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	33
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	52
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	6
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	96	95	96	97	98
Surrogate aaa-Trifluorotoluene	%	100	96	106	85	86
Surrogate Toluene-d_8	%	95	96	95	98	99
Surrogate 4-Bromofluorobenzene	%	105	104	103	95	102

VOCs in soil						
Our Reference		330992-40	330992-48	330992-50	330992-51	330992-56
Your Reference	UNITS	304	306	309	309	309
Depth		5.3-5.5	3.8-4	0.5-0.7	0.9-1.1	4.8-5
Date Sampled		17/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-40	330992-48	330992-50	330992-51	330992-56
Your Reference	UNITS	304	306	309	309	309
Depth		5.3-5.5	3.8-4	0.5-0.7	0.9-1.1	4.8-5
Date Sampled		17/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	97	96	97	98	101
Surrogate aaa-Trifluorotoluene	%	83	89	85	93	83
Surrogate Toluene-d_8	%	100	99	99	99	99
Surrogate 4-Bromofluorobenzene	%	98	97	97	96	98

VOCs in soil						
Our Reference		330992-57	330992-67	330992-68	330992-69	330992-79
Your Reference	UNITS	309	310	310	310	311
Depth		5.8-6	4.6-4.8	5.6-5.8	6.6-6.8	5.4-5.6
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-57	330992-67	330992-68	330992-69	330992-79
Your Reference	UNITS	309	310	310	310	311
Depth		5.8-6	4.6-4.8	5.6-5.8	6.6-6.8	5.4-5.6
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	101	98	98	98	98
Surrogate aaa-Trifluorotoluene	%	89	100	94	97	98
Surrogate Toluene-d_8	%	99	98	97	99	99
Surrogate 4-Bromofluorobenzene	%	100	103	104	104	104

VOCs in soil						
Our Reference		330992-90	330992-91	330992-92	330992-93	330992-94
Your Reference	UNITS	315	315	315	315	315
Depth		3.8-4	4.8-5	5.3-5.5	5.8-6	6.3-6.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	25/08/2023	25/08/2023	25/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-90	330992-91	330992-92	330992-93	330992-94
Your Reference	UNITS	315	315	315	315	315
Depth		3.8-4	4.8-5	5.3-5.5	5.8-6	6.3-6.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	99	98	99	98	99
Surrogate aaa-Trifluorotoluene	%	104	99	98	98	92
Surrogate Toluene-d_8	%	96	95	95	95	96
Surrogate 4-Bromofluorobenzene	%	107	105	109	107	110

VOCs in soil						
Our Reference		330992-104	330992-105	330992-107	330992-117	330992-138
Your Reference	UNITS	318	318	318	319	322
Depth		4.5-4.7	4.8-5	6.8-7	5.8-6	0.2-0.4
Date Sampled		15/08/2023	15/08/2023	15/08/2023	10/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-104	330992-105	330992-107	330992-117	330992-138
Your Reference	UNITS	318	318	318	319	322
Depth		4.5-4.7	4.8-5	6.8-7	5.8-6	0.2-0.4
Date Sampled		15/08/2023	15/08/2023	15/08/2023	10/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	99	99	99	96	110
Surrogate aaa-Trifluorotoluene	%	103	93	96	100	110
Surrogate Toluene-d_8	%	95	95	98	100	126
Surrogate 4-Bromofluorobenzene	%	107	111	112	109	101

VOCs in soil						
Our Reference		330992-139	330992-146	330992-147	330992-156	330992-199
Your Reference	UNITS	322	322A	322A	322B	329
Depth		0.6-0.8	0.2-0.4	0.6-0.8	0.2-0.4	4.6-4.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	1	<0.5	2	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-139	330992-146	330992-147	330992-156	330992-199
Your Reference	UNITS	322	322A	322A	322B	329
Depth		0.6-0.8	0.2-0.4	0.6-0.8	0.2-0.4	4.6-4.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	4
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	6
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	4
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	2
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	110	109	108	104	102
Surrogate aaa-Trifluorotoluene	%	120	88	93	85	107
Surrogate Toluene-d_8	%	125	117	114	109	117
Surrogate 4-Bromofluorobenzene	%	100	98	98	97	108

VOCs in soil						
Our Reference		330992-200	330992-201	330992-202	330992-223	330992-238
Your Reference	UNITS	329	329	329	329B	329C
Depth		5-5.2	5.5-5.7	6-6.2	5-5.1	4.6-4.8
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-200	330992-201	330992-202	330992-223	330992-238
Your Reference	UNITS	329	329	329	329B	329C
Depth		5-5.2	5.5-5.7	6-6.2	5-5.1	4.6-4.8
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	590	73	1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	250	30	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	3	<1	<1	<1
o-Xylene	mg/kg	<1	4	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	95	9	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	130	11	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	95	6	<1	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	290	20	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	47	4	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	18	1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	40	5	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	91	94	96	99	105
Surrogate aaa-Trifluorotoluene	%	108	108	92	98	88
Surrogate Toluene-d_8	%	#	137	107	111	104
Surrogate 4-Bromofluorobenzene	%	135	107	99	109	101

VOCs in soil						
Our Reference		330992-239	330992-240	330992-249	330992-250	330992-251
Your Reference	UNITS	329C	329C	329D	329D	329D
Depth		5.1-5.3	5.6-5.8	2.4-2.6	2.9-3.1	3.4-3.6
Date Sampled		15/08/2023	15/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	7	10
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-239	330992-240	330992-249	330992-250	330992-251
Your Reference	UNITS	329C	329C	329D	329D	329D
Depth		5.1-5.3	5.6-5.8	2.4-2.6	2.9-3.1	3.4-3.6
Date Sampled		15/08/2023	15/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	1,300	1,900
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	610	870
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	180	210
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	34	40
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	33	38
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	24	26
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	72	76
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	2	2
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	3	4
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	105	106	104	103	103
Surrogate aaa-Trifluorotoluene	%	95	95	90	110	112
Surrogate Toluene-d_8	%	105	104	102	133	135
Surrogate 4-Bromofluorobenzene	%	101	100	100	109	108

VOCs in soil						
Our Reference		330992-252	330992-253	330992-254	330992-255	330992-256
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		4-4.2	4.5-4.7	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	64	24	33	120	1
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		330992-252	330992-253	330992-254	330992-255	330992-256
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		4-4.2	4.5-4.7	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	5,000	1,400	1,600	3,100	51
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	2,300	610	750	1,300	33
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	760	200	170	390	4
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	98	22	24	48	7
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	93	22	22	52	13
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	67	25	24	66	17
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	180	88	60	220	53
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	9	6	5	18	3
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	18	12	12	13	5
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	94	99	96	90	97
Surrogate aaa-Trifluorotoluene	%	109	115	108	109	109
Surrogate Toluene-d_8	%	#	132	127	#	111
Surrogate 4-Bromofluorobenzene	%	127	112	109	134	98

VOCs in soil			
Our Reference		330992-263	330992-271
Your Reference	UNITS	330	BD3/20230816
Depth		2-2.2	-
Date Sampled		15/08/2023	16/08/2023
Type of sample		Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023
Date Analysed	-	28/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1
Chloromethane	mg/kg	<1	<1
Vinyl Chloride	mg/kg	<1	<1
Bromomethane	mg/kg	<1	<1
Chloroethane	mg/kg	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1
1,1-dichloroethane	mg/kg	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1
bromochloromethane	mg/kg	<1	<1
chloroform	mg/kg	<1	<1
2,2-dichloropropane	mg/kg	<1	<1
1,2-dichloroethane	mg/kg	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1
1,1-dichloropropene	mg/kg	<1	<1
Cyclohexane	mg/kg	<1	<1
carbon tetrachloride	mg/kg	<1	<1
Benzene	mg/kg	<0.2	<0.2
dibromomethane	mg/kg	<1	<1
1,2-dichloropropane	mg/kg	<1	<1
trichloroethene	mg/kg	<1	<1
bromodichloromethane	mg/kg	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1
Toluene	mg/kg	1	<0.5
1,3-dichloropropane	mg/kg	<1	<1
dibromochloromethane	mg/kg	<1	<1
1,2-dibromoethane	mg/kg	<1	<1
tetrachloroethene	mg/kg	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1
chlorobenzene	mg/kg	<1	<1

VOCs in soil			
Our Reference		330992-263	330992-271
Your Reference	UNITS	330	BD3/20230816
Depth		2-2.2	-
Date Sampled		15/08/2023	16/08/2023
Type of sample		Soil	Soil
Ethylbenzene	mg/kg	<1	<1
bromoform	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
styrene	mg/kg	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1
o-Xylene	mg/kg	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1
isopropylbenzene	mg/kg	<1	<1
bromobenzene	mg/kg	<1	<1
n-propyl benzene	mg/kg	<1	<1
2-chlorotoluene	mg/kg	<1	<1
4-chlorotoluene	mg/kg	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1
tert-butyl benzene	mg/kg	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1
sec-butyl benzene	mg/kg	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1
4-isopropyl toluene	mg/kg	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1
n-butyl benzene	mg/kg	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1
hexachlorobutadiene	mg/kg	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1
Surrogate Dibromofluoromethane	%	102	102
Surrogate aaa-Trifluorotoluene	%	96	94
Surrogate Toluene-d_8	%	102	101
Surrogate 4-Bromofluorobenzene	%	98	100

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-2	330992-3	330992-5	330992-7	330992-10
Your Reference	UNITS	301	301	302	302	302
Depth		0.5-0.7	1-1.2	0.2-0.4	0.8-1	2.3-2.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	2	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	103	105	95	109	105

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-11	330992-13	330992-15	330992-18	330992-20
Your Reference	UNITS	302	302	302	302	302
Depth		2.8-3	4.8-5	6.8-7	9.8-10	11.5-11.6
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	106	97	99	100	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-21	330992-23	330992-24	330992-25	330992-26
Your Reference	UNITS	303	303	303	303	303
Depth		0.2-0.4	1.2-1.4	1.7-1.9	2.1-2.3	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	99	109	101	106

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-27	330992-29	330992-30	330992-31	330992-34
Your Reference	UNITS	303	303	304	304	304
Depth		3-3.2	4.8-5	0.2-0.3	0.3-0.5	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	2	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	1	<1	<1
m+p-xylene	mg/kg	<2	<2	2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	2	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	101	98	104	104

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-36	330992-37	330992-38	330992-39	330992-40
Your Reference	UNITS	304	304	304	304	304
Depth		2.8-3	3.8-4	4.3-4.5	4.8-5	5.3-5.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	160	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	1,000	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	910	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	13	<1
m+p-xylene	mg/kg	<2	<2	<2	60	<2
o-Xylene	mg/kg	<1	<1	<1	13	<1
Naphthalene	mg/kg	<1	<1	<1	2	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	73	<1
Surrogate aaa-Trifluorotoluene	%	106	83	85	86	83

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-41	330992-42	330992-44	330992-45	330992-48
Your Reference	UNITS	304	306	306	306	306
Depth		5.8-6	0.2-0.3	0.8-1	1.2-1.4	3.8-4
Date Sampled		17/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	81	88	96	80	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-49	330992-50	330992-51	330992-52	330992-53
Your Reference	UNITS	309	309	309	309	309
Depth		0.2-0.4	0.5-0.7	0.9-1.1	1.2-1.4	1.8-2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.7	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	85	93	82	81

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-54	330992-56	330992-57	330992-59	330992-60
Your Reference	UNITS	309	309	309	309	310
Depth		2.8-3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	83	89	84	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-62	330992-64	330992-66	330992-67	330992-68
Your Reference	UNITS	310	310	310	310	310
Depth		0.8-1	1.6-1.8	3.6-3.8	4.6-4.8	5.6-5.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	98	103	100	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-69	330992-70	330992-71	330992-72	330992-75
Your Reference	UNITS	310	310	311	311	311
Depth		6.6-6.8	7.6-7.8	0.2-0.3	0.5-0.7	2-2.2
Date Sampled		16/08/2023	16/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	97	95	103	100	100

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-77	330992-78	330992-79	330992-80	330992-81
Your Reference	UNITS	311	311	311	311	311
Depth		3.4-3.6	4.4-4.6	5.4-5.6	6.4-6.6	7.4-7.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	105	100	98	104	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-82	330992-84	330992-86	330992-87	330992-89
Your Reference	UNITS	311	315	315	315	315
Depth		8.4-8.6	0.2-0.3	0.8-1	1.5-1.7	2.8-3
Date Sampled		10/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	101	108	96	103

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-90	330992-91	330992-92	330992-93	330992-94
Your Reference	UNITS	315	315	315	315	315
Depth		3.8-4	4.8-5	5.3-5.5	5.8-6	6.3-6.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	104	99	98	98	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-95	330992-96	330992-97	330992-99	330992-100
Your Reference	UNITS	315	315	318	318	318
Depth		6.8-7	7.8-8	0.2-0.4	1-1.2	1.5-1.7
Date Sampled		11/08/2023	11/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	100	99	100	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-102	330992-103	330992-104	330992-105	330992-106
Your Reference	UNITS	318	318	318	318	318
Depth		2.5-2.7	3.5-3.7	4.5-4.7	4.8-5	5.8-6
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	100	103	93	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-107	330992-109	330992-110	330992-111	330992-112
Your Reference	UNITS	318	319	319	319	319
Depth		6.8-7	0.25-0.35	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	104	100	101	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-114	330992-115	330992-116	330992-117	330992-118
Your Reference	UNITS	319	319	319	319	319
Depth		2.8-3	3.8-4	4.8-5	5.8-6	6.8-7
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	93	106	100	100	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-119	330992-120	330992-121	330992-123	330992-124
Your Reference	UNITS	319	320A	320A	320B	320B
Depth		7.8-8	0.15-0.25	0.5-0.6	0.2-0.4	0.5-0.7
Date Sampled		10/08/2023	16/08/2023	16/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	2	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	101	103	99	101

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-125	330992-128	330992-130	330992-131	330992-133
Your Reference	UNITS	320B	321	321	321	321
Depth		0.8-1	0.2-0.4	1-1.2	2-2.2	4-4.2
Date Sampled		17/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	3	2	<2
o-Xylene	mg/kg	<1	<1	1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	4	2	<1
Surrogate aaa-Trifluorotoluene	%	104	100	104	97	117

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-134	330992-135	330992-136	330992-138	330992-139
Your Reference	UNITS	321	321	321	322	322
Depth		5-5.2	6-6.2	7-7.2	0.2-0.4	0.6-0.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	110	118	94	110	120

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-141	330992-142	330992-144	330992-146	330992-147
Your Reference	UNITS	322	322	322	322A	322A
Depth		1.8-2	2.3-2.5	3-3.2	0.2-0.4	0.6-0.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	1	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	108	93	100	88	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-148	330992-150	330992-151	330992-153	330992-155
Your Reference	UNITS	322A	322A	322A	322A	322A
Depth		1-1.2	1.8-2	2.3-2.5	3.3-3.5	4.3-4.5
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	81	96	99	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-156	330992-157	330992-159	330992-160	330992-161
Your Reference	UNITS	322B	322B	322B	322B	322B
Depth		0.2-0.4	0.5-0.7	1.5-1.7	2-2.2	3-3.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	2	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	85	85	90	86	84

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-163	330992-164	330992-165	330992-166	330992-167
Your Reference	UNITS	322C	322C	322C	322C	322C
Depth		0.2-0.4	0.6-0.8	1.2-1.4	1.5-1.7	2.5-2.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.6	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	93	98	96	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-168	330992-170	330992-171	330992-173	330992-175
Your Reference	UNITS	322C	322C	322C	322C	322D
Depth		3.3-3.5	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	2	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	97	91	88	89	83

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-176	330992-178	330992-179	330992-180	330992-182
Your Reference	UNITS	322D	322D	322D	322D	328D
Depth		0.7-0.9	1.7-1.9	2.2-2.4	2.6-2.8	0.25-0.35
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	1
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	93	87	92	95	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-183	330992-185	330992-187	330992-188	330992-189
Your Reference	UNITS	328D	328D	328D	328D	329
Depth		0.5-0.7	1.5-1.7	2.4-2.6	3-3.2	0.1-0.3
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	1	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	97	97	98	94	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-190	330992-192	330992-194	330992-195	330992-197
Your Reference	UNITS	329	329	329	329	329
Depth		0.5-0.7	1.3-1.5	2.3-2.5	2.8-3	3.8-4
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	26	<25	<25	65
TRH C_6 - C_{10}	mg/kg	<25	39	<25	160	150
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	36	<25	160	130
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	3	3	1	17
m+p-xylene	mg/kg	<2	<2	<2	<2	4
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	4
Surrogate aaa-Trifluorotoluene	%	94	92	92	97	100

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-198	330992-199	330992-200	330992-201	330992-202
Your Reference	UNITS	329	329	329	329	329
Depth		4.1-4.3	4.6-4.8	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	28	2,200	370	<25
TRH C_6 - C_{10}	mg/kg	29	290	4,300	570	27
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	29	290	3,500	460	26
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	590	73	1
m+p-xylene	mg/kg	<2	<2	250	30	<2
o-Xylene	mg/kg	<1	<1	<1	4	<1
Naphthalene	mg/kg	<1	<1	15	3	<1
Total +ve Xylenes	mg/kg	<1	<1	250	34	<1
Surrogate aaa-Trifluorotoluene	%	90	107	108	108	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-203	330992-204	330992-205	330992-206	330992-208
Your Reference	UNITS	329	329	329A	329A	329A
Depth		6.5-6.7	6.8-7	0.1-0.3	0.5-0.7	1.3-1.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	4
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	82	88	90	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-209	330992-211	330992-212	330992-213	330992-215
Your Reference	UNITS	329A	329A	329A	329A	329B
Depth		1.8-2	2.8-3	3.3-3.5	3.8-4	0.1-0.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	25/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	2	2	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	97	90	94	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-216	330992-218	330992-219	330992-221	330992-222
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		0.5-0.7	1.5-1.6	2-2.2	3.5-3.7	4.3-4.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	43
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	25	110
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	25	100
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	1	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	2	<1	<1	2
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	2	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	89	93	90	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-223	330992-224	330992-226	330992-228	330992-229
Your Reference	UNITS	329B	329B	329B	329C	329C
Depth		5-5.1	5.2-5.4	6.8-7	0.1-0.2	0.5-0.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	130	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	130	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	0.6	0.7
Ethylbenzene	mg/kg	<1	<1	<1	1	1
m+p-xylene	mg/kg	<2	<2	<2	3	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	3	<1
Surrogate aaa-Trifluorotoluene	%	98	89	91	96	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-231	330992-233	330992-235	330992-237	330992-238
Your Reference	UNITS	329C	329C	329C	329C	329C
Depth		1.5-1.7	2.3-2.5	3.3-3.5	4.1-4.3	4.6-4.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	2	<1	2	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	96	87	103	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-239	330992-240	330992-242	330992-244	330992-245
Your Reference	UNITS	329C	329C	329C	329D	329D
Depth		5.1-5.3	5.6-5.8	6.8-7	0.1-0.3	0.5-0.7
Date Sampled		15/08/2023	15/08/2023	15/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	2
m+p-xylene	mg/kg	<2	<2	<2	<2	3
o-Xylene	mg/kg	<1	<1	<1	<1	2
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	4
Surrogate aaa-Trifluorotoluene	%	95	95	92	88	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-246	330992-248	330992-251	330992-252	330992-253
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		0.9-1.1	1.9-2.1	3.4-3.6	4-4.2	4.5-4.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	4,200	12,000	3,200
TRH C_6 - C_{10}	mg/kg	<25	<25	5,700	15,000	4,400
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	2,700	6,900	2,200
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	10	64	24
Ethylbenzene	mg/kg	<1	2	1,900	5,000	1,400
m+p-xylene	mg/kg	<2	<2	870	2,300	610
o-Xylene	mg/kg	<1	<1	210	760	200
Naphthalene	mg/kg	<1	<1	3	6	3
Total +ve Xylenes	mg/kg	<1	<1	1,100	3,100	810
Surrogate aaa-Trifluorotoluene	%	92	92	112	109	115

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-257	330992-258	330992-259	330992-261	330992-263
Your Reference	UNITS	329D	329D	330	330	330
Depth		6.5-6.7	6.9-7	0.1-0.3	1-1.2	2-2.2
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	0.8	1
Ethylbenzene	mg/kg	<1	2	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	96	90	93	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		330992-265	330992-266	330992-269	330992-270	330992-271
Your Reference	UNITS	BD2/20230810	BD1/20230811	BD1/20230816	BD2/20230816	BD3/20230816
Depth		-	-	-	-	-
Date Sampled		10/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	94	91	97	94

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		330992-272	330992-273	330992-274	330992-275
Your Reference	UNITS	Trip Spike/20230810	Trip Spike/20230814	Trip Blank/20230810	Trip Blank/20230814
Depth		-	-	-	-
Date Sampled		10/08/2023	14/08/2023	10/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	[NA]	[NA]	<25	<25
TRH C_6 - C_{10}	mg/kg	[NA]	[NA]	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	[NA]	[NA]	<25	<25
Benzene	mg/kg	107%	94%	<0.2	<0.2
Toluene	mg/kg	108%	94%	<0.5	<0.5
Ethylbenzene	mg/kg	107%	94%	<1	<1
m+p-xylene	mg/kg	108%	93%	<2	<2
o-Xylene	mg/kg	106%	93%	<1	<1
Naphthalene	mg/kg	[NA]	[NA]	<1	<1
Total +ve Xylenes	mg/kg	[NA]	[NA]	<1	<1
Surrogate aaa-Trifluorotoluene	%	113	94	94	88

svTRH (C10-C40) in Soil						
Our Reference		330992-2	330992-3	330992-5	330992-7	330992-10
Your Reference	UNITS	301	301	302	302	302
Depth		0.5-0.7	1-1.2	0.2-0.4	0.8-1	2.3-2.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	85	81	84	83

svTRH (C10-C40) in Soil						
Our Reference		330992-11	330992-13	330992-15	330992-18	330992-20
Your Reference	UNITS	302	302	302	302	302
Depth		2.8-3	4.8-5	6.8-7	9.8-10	11.5-11.6
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	83	84	89	85

svTRH (C10-C40) in Soil						
Our Reference		330992-21	330992-23	330992-24	330992-25	330992-26
Your Reference	UNITS	303	303	303	303	303
Depth		0.2-0.4	1.2-1.4	1.7-1.9	2.1-2.3	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	82	83	84	81

svTRH (C10-C40) in Soil						
Our Reference		330992-27	330992-29	330992-30	330992-31	330992-34
Your Reference	UNITS	303	303	304	304	304
Depth		3-3.2	4.8-5	0.2-0.3	0.3-0.5	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	140	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	140	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	87	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	87	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	90	<50	<50
Surrogate o-Terphenyl	%	84	81	80	82	81

svTRH (C10-C40) in Soil						
Our Reference		330992-36	330992-37	330992-38	330992-39	330992-40
Your Reference	UNITS	304	304	304	304	304
Depth		2.8-3	3.8-4	4.3-4.5	4.8-5	5.3-5.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	2,200	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	2,200	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	1,300	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	1,300	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	1,300	<50
Surrogate o-Terphenyl	%	87	86	87	80	81

svTRH (C10-C40) in Soil						
Our Reference		330992-41	330992-42	330992-44	330992-45	330992-48
Your Reference	UNITS	304	306	306	306	306
Depth		5.8-6	0.2-0.3	0.8-1	1.2-1.4	3.8-4
Date Sampled		17/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	82	83	81	82

svTRH (C10-C40) in Soil						
Our Reference		330992-49	330992-50	330992-51	330992-52	330992-53
Your Reference	UNITS	309	309	309	309	309
Depth		0.2-0.4	0.5-0.7	0.9-1.1	1.2-1.4	1.8-2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	87	81	78	83

svTRH (C10-C40) in Soil						
Our Reference		330992-54	330992-56	330992-57	330992-59	330992-60
Your Reference	UNITS	309	309	309	309	310
Depth		2.8-3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	80	82	87	83

svTRH (C10-C40) in Soil						
Our Reference		330992-62	330992-64	330992-66	330992-67	330992-68
Your Reference	UNITS	310	310	310	310	310
Depth		0.8-1	1.6-1.8	3.6-3.8	4.6-4.8	5.6-5.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	84	84	86	80

svTRH (C10-C40) in Soil						
Our Reference		330992-69	330992-70	330992-71	330992-72	330992-75
Your Reference	UNITS	310	310	311	311	311
Depth		6.6-6.8	7.6-7.8	0.2-0.3	0.5-0.7	2-2.2
Date Sampled		16/08/2023	16/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	86	81	86	84

svTRH (C10-C40) in Soil						
Our Reference		330992-77	330992-78	330992-79	330992-80	330992-81
Your Reference	UNITS	311	311	311	311	311
Depth		3.4-3.6	4.4-4.6	5.4-5.6	6.4-6.6	7.4-7.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	85	86	79	82

svTRH (C10-C40) in Soil						
Our Reference		330992-82	330992-84	330992-86	330992-87	330992-89
Your Reference	UNITS	311	315	315	315	315
Depth		8.4-8.6	0.2-0.3	0.8-1	1.5-1.7	2.8-3
Date Sampled		10/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	79	80	80	80

svTRH (C10-C40) in Soil						
Our Reference		330992-90	330992-91	330992-92	330992-93	330992-94
Your Reference	UNITS	315	315	315	315	315
Depth		3.8-4	4.8-5	5.3-5.5	5.8-6	6.3-6.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	150	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	180	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	330	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	180	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	180	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	140	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	320	<50	<50	<50
Surrogate o-Terphenyl	%	79	86	78	78	79

svTRH (C10-C40) in Soil						
Our Reference		330992-95	330992-96	330992-97	330992-99	330992-100
Your Reference	UNITS	315	315	318	318	318
Depth		6.8-7	7.8-8	0.2-0.4	1-1.2	1.5-1.7
Date Sampled		11/08/2023	11/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	78	77	77	77

svTRH (C10-C40) in Soil						
Our Reference		330992-102	330992-103	330992-104	330992-105	330992-106
Your Reference	UNITS	318	318	318	318	318
Depth		2.5-2.7	3.5-3.7	4.5-4.7	4.8-5	5.8-6
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	77	78	77	78

svTRH (C10-C40) in Soil						
Our Reference		330992-107	330992-109	330992-110	330992-111	330992-112
Your Reference	UNITS	318	319	319	319	319
Depth		6.8-7	0.25-0.35	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	78	76	77	79

svTRH (C10-C40) in Soil						
Our Reference		330992-114	330992-115	330992-116	330992-117	330992-118
Your Reference	UNITS	319	319	319	319	319
Depth		2.8-3	3.8-4	4.8-5	5.8-6	6.8-7
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	78	77	79	80

svTRH (C10-C40) in Soil						
Our Reference		330992-119	330992-120	330992-121	330992-123	330992-124
Your Reference	UNITS	319	320A	320A	320B	320B
Depth		7.8-8	0.15-0.25	0.5-0.6	0.2-0.4	0.5-0.7
Date Sampled		10/08/2023	16/08/2023	16/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	79	88	91	86

svTRH (C10-C40) in Soil						
Our Reference		330992-125	330992-128	330992-130	330992-131	330992-133
Your Reference	UNITS	320B	321	321	321	321
Depth		0.8-1	0.2-0.4	1-1.2	2-2.2	4-4.2
Date Sampled		17/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	150	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	150	<50	<50	<50
Surrogate o-Terphenyl	%	86	90	88	88	87

svTRH (C10-C40) in Soil						
Our Reference		330992-134	330992-135	330992-136	330992-138	330992-139
Your Reference	UNITS	321	321	321	322	322
Depth		5-5.2	6-6.2	7-7.2	0.2-0.4	0.6-0.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	85	87	86	88

svTRH (C10-C40) in Soil						
Our Reference		330992-141	330992-142	330992-144	330992-146	330992-147
Your Reference	UNITS	322	322	322	322A	322A
Depth		1.8-2	2.3-2.5	3-3.2	0.2-0.4	0.6-0.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	140	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	140	<50
Surrogate o-Terphenyl	%	84	84	82	93	89

svTRH (C10-C40) in Soil						
Our Reference		330992-148	330992-150	330992-151	330992-153	330992-155
Your Reference	UNITS	322A	322A	322A	322A	322A
Depth		1-1.2	1.8-2	2.3-2.5	3.3-3.5	4.3-4.5
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	88	87	86	86

svTRH (C10-C40) in Soil						
Our Reference		330992-156	330992-157	330992-159	330992-160	330992-161
Your Reference	UNITS	322B	322B	322B	322B	322B
Depth		0.2-0.4	0.5-0.7	1.5-1.7	2-2.2	3-3.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	87	77	87	86

svTRH (C10-C40) in Soil						
Our Reference		330992-163	330992-164	330992-165	330992-166	330992-167
Your Reference	UNITS	322C	322C	322C	322C	322C
Depth		0.2-0.4	0.6-0.8	1.2-1.4	1.5-1.7	2.5-2.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	87	86	87	86

svTRH (C10-C40) in Soil						
Our Reference		330992-168	330992-170	330992-171	330992-173	330992-175
Your Reference	UNITS	322C	322C	322C	322C	322D
Depth		3.3-3.5	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	86	84	86	85

svTRH (C10-C40) in Soil						
Our Reference		330992-176	330992-178	330992-179	330992-180	330992-182
Your Reference	UNITS	322D	322D	322D	322D	328D
Depth		0.7-0.9	1.7-1.9	2.2-2.4	2.6-2.8	0.25-0.35
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	89
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	1,300
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	1,000
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	2,400
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	100
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	100
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	2,200
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	320
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	2,600
Surrogate o-Terphenyl	%	82	82	83	83	98

svTRH (C10-C40) in Soil						
Our Reference		330992-183	330992-185	330992-187	330992-188	330992-189
Your Reference	UNITS	328D	328D	328D	328D	329
Depth		0.5-0.7	1.5-1.7	2.4-2.6	3-3.2	0.1-0.3
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	260
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	180
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	440
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	370
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	110
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	480
Surrogate o-Terphenyl	%	84	83	81	82	84

svTRH (C10-C40) in Soil						
Our Reference		330992-190	330992-192	330992-194	330992-195	330992-197
Your Reference	UNITS	329	329	329	329	329
Depth		0.5-0.7	1.3-1.5	2.3-2.5	2.8-3	3.8-4
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	28/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	220	71
TRH C_{15} - C_{28}	mg/kg	400	<100	<100	210	<100
TRH C_{29} - C_{36}	mg/kg	200	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	600	<50	<50	430	70
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	140	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	140	<50
TRH >C_{16} -C_{34}	mg/kg	550	<100	<100	250	120
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	550	<50	<50	390	120
Surrogate o-Terphenyl	%	87	82	83	84	83

svTRH (C10-C40) in Soil						
Our Reference		330992-198	330992-199	330992-200	330992-201	330992-202
Your Reference	UNITS	329	329	329	329	329
Depth		4.1-4.3	4.6-4.8	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	67	360	5,300	420	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	160	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	70	360	5,300	580	<50
TRH >C_{10} -C_{16}	mg/kg	57	280	3,000	280	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	57	280	3,000	270	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	170	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	60	280	3,000	450	<50
Surrogate o-Terphenyl	%	78	75	75	77	74

svTRH (C10-C40) in Soil						
Our Reference		330992-203	330992-204	330992-205	330992-206	330992-208
Your Reference	UNITS	329	329	329A	329A	329A
Depth		6.5-6.7	6.8-7	0.1-0.3	0.5-0.7	1.3-1.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	26/08/2023	26/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	330	74	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	550	370	180
TRH C_{29} - C_{36}	mg/kg	<100	<100	250	180	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	1,100	630	180
TRH >C_{10} -C_{16}	mg/kg	<50	<50	340	70	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	340	70	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	690	500	230
TRH >C_{34} -C_{40}	mg/kg	<100	<100	130	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	1,200	570	230
Surrogate o-Terphenyl	%	73	78	93	90	83

svTRH (C10-C40) in Soil						
Our Reference		330992-209	330992-211	330992-212	330992-213	330992-215
Your Reference	UNITS	329A	329A	329A	329A	329B
Depth		1.8-2	2.8-3	3.3-3.5	3.8-4	0.1-0.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	140
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	110
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	250
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	120	<100	<100	<100	200
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	120	<50	<50	<50	200
Surrogate o-Terphenyl	%	85	80	80	79	86

svTRH (C10-C40) in Soil						
Our Reference		330992-216	330992-218	330992-219	330992-221	330992-222
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		0.5-0.7	1.5-1.6	2-2.2	3.5-3.7	4.3-4.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	26/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	68	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	320	100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	160	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	540	100	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	65	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	63	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	430	150	170	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	490	150	170	<50	<50
Surrogate o-Terphenyl	%	89	92	82	79	79

svTRH (C10-C40) in Soil						
Our Reference		330992-223	330992-224	330992-226	330992-228	330992-229
Your Reference	UNITS	329B	329B	329B	329C	329C
Depth		5-5.1	5.2-5.4	6.8-7	0.1-0.2	0.5-0.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	26/08/2023	28/08/2023	26/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	180	<50	<50	73	<50
TRH C_{15} - C_{28}	mg/kg	160	<100	<100	240	<100
TRH C_{29} - C_{36}	mg/kg	270	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	600	<50	<50	320	<50
TRH >C_{10} -C_{16}	mg/kg	110	<50	<50	64	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	110	<50	<50	64	<50
TRH >C_{16} -C_{34}	mg/kg	360	<100	<100	300	<100
TRH >C_{34} -C_{40}	mg/kg	120	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	580	<50	<50	360	<50
Surrogate o-Terphenyl	%	87	78	94	86	89

svTRH (C10-C40) in Soil						
Our Reference		330992-231	330992-233	330992-235	330992-237	330992-238
Your Reference	UNITS	329C	329C	329C	329C	329C
Depth		1.5-1.7	2.3-2.5	3.3-3.5	4.1-4.3	4.6-4.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	80	82	85	74

svTRH (C10-C40) in Soil						
Our Reference		330992-239	330992-240	330992-242	330992-244	330992-245
Your Reference	UNITS	329C	329C	329C	329D	329D
Depth		5.1-5.3	5.6-5.8	6.8-7	0.1-0.3	0.5-0.7
Date Sampled		15/08/2023	15/08/2023	15/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	26/08/2023	26/08/2023	28/08/2023	26/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	270	390
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	140	460
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	420	850
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	380	740
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	300
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	380	1,000
Surrogate o-Terphenyl	%	74	74	86	86	91

svTRH (C10-C40) in Soil						
Our Reference		330992-246	330992-248	330992-251	330992-252	330992-253
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		0.9-1.1	1.9-2.1	3.4-3.6	4-4.2	4.5-4.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	26/08/2023	26/08/2023	25/08/2023	26/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	690	2,900	1,700
TRH C_{15} - C_{28}	mg/kg	110	<100	<100	450	120
TRH C_{29} - C_{36}	mg/kg	300	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	400	<50	690	3,300	1,900
TRH >C_{10} -C_{16}	mg/kg	<50	<50	250	1,300	850
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	250	1,300	850
TRH >C_{16} -C_{34}	mg/kg	310	<100	<100	490	130
TRH >C_{34} -C_{40}	mg/kg	300	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	610	<50	250	1,800	980
Surrogate o-Terphenyl	%	104	81	76	85	82

svTRH (C10-C40) in Soil						
Our Reference		330992-257	330992-258	330992-259	330992-261	330992-263
Your Reference	UNITS	329D	329D	330	330	330
Depth		6.5-6.7	6.9-7	0.1-0.3	1-1.2	2-2.2
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	26/08/2023	26/08/2023	26/08/2023	26/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	67	<50	120	87	180
TRH C_{15} - C_{28}	mg/kg	<100	<100	360	370	2,500
TRH C_{29} - C_{36}	mg/kg	<100	<100	330	180	250
Total +ve TRH (C10-C36)	mg/kg	70	<50	810	640	3,000
TRH >C_{10} -C_{16}	mg/kg	<50	<50	81	90	200
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	81	90	200
TRH >C_{16} -C_{34}	mg/kg	<100	<100	590	490	2,700
TRH >C_{34} -C_{40}	mg/kg	<100	<100	170	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	850	580	2,900
Surrogate o-Terphenyl	%	85	80	92	83	87

svTRH (C10-C40) in Soil						
Our Reference		330992-265	330992-266	330992-269	330992-270	330992-271
Your Reference	UNITS	BD2/20230810	BD1/20230811	BD1/20230816	BD2/20230816	BD3/20230816
Depth		-	-	-	-	-
Date Sampled		10/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	26/08/2023	26/08/2023	26/08/2023	26/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	86	82	82	79

sTPH in Soil (C10-C40)-Silica						
Our Reference		330992-39	330992-91	330992-250	330992-251	330992-252
Your Reference	UNITS	304	315	329D	329D	329D
Depth		4.8-5	4.8-5	2.9-3.1	3.4-3.6	4-4.2
Date Sampled		17/08/2023	11/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
TPH C_{10} - C_{14}	mg/kg	1,200	86	240	430	2,600
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	810	110	110	160	1,200
TPH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	71	79	74	76	90

sTPH in Soil (C10-C40)-Silica				
Our Reference		330992-253	330992-254	330992-255
Your Reference	UNITS	329D	329D	329D
Depth		4.5-4.7	5-5.2	5.5-5.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023
TPH C_{10} - C_{14}	mg/kg	980	4,800	4,200
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	490	2,400	2,500
TPH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	76	86	94

PAHs in Soil						
Our Reference		330992-2	330992-3	330992-5	330992-7	330992-10
Your Reference	UNITS	301	301	302	302	302
Depth		0.5-0.7	1-1.2	0.2-0.4	0.8-1	2.3-2.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	112	100	95	112	105

PAHs in Soil						
Our Reference		330992-11	330992-21	330992-23	330992-24	330992-26
Your Reference	UNITS	302	303	303	303	303
Depth		2.8-3	0.2-0.4	1.2-1.4	1.7-1.9	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	105	109	109	122	112

PAHs in Soil						
Our Reference		330992-27	330992-29	330992-30	330992-31	330992-34
Your Reference	UNITS	303	303	304	304	304
Depth		3-3.2	4.8-5	0.2-0.3	0.3-0.5	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	1.3	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	1.3	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	100	105	129	104

PAHs in Soil						
Our Reference		330992-39	330992-42	330992-44	330992-48	330992-49
Your Reference	UNITS	304	306	306	306	309
Depth		4.8-5	0.2-0.3	0.8-1	3.8-4	0.2-0.4
Date Sampled		17/08/2023	11/08/2023	11/08/2023	11/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	1.7	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.7	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	106	114	109	106

PAHs in Soil						
Our Reference		330992-50	330992-52	330992-56	330992-57	330992-59
Your Reference	UNITS	309	309	309	309	309
Depth		0.5-0.7	1.2-1.4	4.8-5	5.8-6	7.8-8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	103	72	105	104	107

PAHs in Soil						
Our Reference		330992-60	330992-62	330992-64	330992-68	330992-71
Your Reference	UNITS	310	310	310	310	311
Depth		0.2-0.4	0.8-1	1.6-1.8	5.6-5.8	0.2-0.3
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	109	112	104	108

PAHs in Soil						
Our Reference		330992-72	330992-75	330992-79	330992-81	330992-82
Your Reference	UNITS	311	311	311	311	311
Depth		0.5-0.7	2-2.2	5.4-5.6	7.4-7.6	8.4-8.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.8	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.7	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.7	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.4	0.1	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	4.4	0.4	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	0.6	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.6	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	114	107	109	109

PAHs in Soil						
Our Reference		330992-84	330992-86	330992-87	330992-89	330992-90
Your Reference	UNITS	315	315	315	315	315
Depth		0.2-0.3	0.8-1	1.5-1.7	2.8-3	3.8-4
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.06	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.06	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	112	111	111	111

PAHs in Soil						
Our Reference		330992-91	330992-92	330992-93	330992-94	330992-97
Your Reference	UNITS	315	315	315	315	318
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	0.2-0.4
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	113	106	101	101	106

PAHs in Soil						
Our Reference		330992-99	330992-100	330992-102	330992-104	330992-105
Your Reference	UNITS	318	318	318	318	318
Depth		1-1.2	1.5-1.7	2.5-2.7	4.5-4.7	4.8-5
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	108	118	106	103

PAHs in Soil						
Our Reference		330992-107	330992-109	330992-110	330992-111	330992-112
Your Reference	UNITS	318	319	319	319	319
Depth		6.8-7	0.25-0.35	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	106	108	77	75	76

PAHs in Soil						
Our Reference		330992-115	330992-117	330992-119	330992-120	330992-121
Your Reference	UNITS	319	319	319	320A	320A
Depth		3.8-4	5.8-6	7.8-8	0.15-0.25	0.5-0.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.1	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	74	75	76	110	84

PAHs in Soil						
Our Reference		330992-123	330992-124	330992-125	330992-128	330992-130
Your Reference	UNITS	320B	320B	320B	321	321
Depth		0.2-0.4	0.5-0.7	0.8-1	0.2-0.4	1-1.2
Date Sampled		17/08/2023	17/08/2023	17/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	89	105	110	118	110

PAHs in Soil						
Our Reference		330992-131	330992-133	330992-134	330992-135	330992-138
Your Reference	UNITS	321	321	321	321	322
Depth		2-2.2	4-4.2	5-5.2	6-6.2	0.2-0.4
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.5
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.07
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	0.99
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	114	110	114	115	110

PAHs in Soil						
Our Reference		330992-139	330992-141	330992-142	330992-144	330992-146
Your Reference	UNITS	322	322	322	322	322A
Depth		0.6-0.8	1.8-2	2.3-2.5	3-3.2	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	1.9
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	114	109	113	122

PAHs in Soil						
Our Reference		330992-147	330992-148	330992-150	330992-151	330992-153
Your Reference	UNITS	322A	322A	322A	322A	322A
Depth		0.6-0.8	1-1.2	1.8-2	2.3-2.5	3.3-3.5
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	122	122	126	121	119

PAHs in Soil						
Our Reference		330992-155	330992-156	330992-157	330992-159	330992-160
Your Reference	UNITS	322A	322B	322B	322B	322B
Depth		4.3-4.5	0.2-0.4	0.5-0.7	1.5-1.7	2-2.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.2	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	124	117	121	120	130

PAHs in Soil						
Our Reference		330992-161	330992-163	330992-164	330992-165	330992-166
Your Reference	UNITS	322B	322C	322C	322C	322C
Depth		3-3.2	0.2-0.4	0.6-0.8	1.2-1.4	1.5-1.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.1	0.2	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	123	119	118	123	128

PAHs in Soil						
Our Reference		330992-167	330992-168	330992-170	330992-171	330992-173
Your Reference	UNITS	322C	322C	322C	322C	322C
Depth		2.5-2.7	3.3-3.5	4.8-5	5.8-6	7.8-8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.3
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.09
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	1.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	125	124	122	113	114

PAHs in Soil						
Our Reference		330992-175	330992-176	330992-178	330992-179	330992-180
Your Reference	UNITS	322D	322D	322D	322D	322D
Depth		0.2-0.4	0.7-0.9	1.7-1.9	2.2-2.4	2.6-2.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.3	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	115	110	112	124

PAHs in Soil						
Our Reference		330992-182	330992-183	330992-185	330992-187	330992-188
Your Reference	UNITS	328D	328D	328D	328D	328D
Depth		0.25-0.35	0.5-0.7	1.5-1.7	2.4-2.6	3-3.2
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.5	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	0.1	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	0.1	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	114	116	116	117

PAHs in Soil						
Our Reference		330992-189	330992-190	330992-192	330992-194	330992-195
Your Reference	UNITS	329	329	329	329	329
Depth		0.1-0.3	0.5-0.7	1.3-1.5	2.3-2.5	2.8-3
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	0.6	0.4	<0.1	0.1	0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	1.8	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.9	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	1.8	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.9	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.8	0.2	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	1	0.3	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.95	0.1	0.1	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.4	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.4	0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	11	2.0	0.1	0.1	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	124	112	116	123

PAHs in Soil						
Our Reference		330992-197	330992-200	330992-202	330992-203	330992-205
Your Reference	UNITS	329	329	329	329	329A
Depth		3.8-4	5-5.2	6-6.2	6.5-6.7	0.1-0.3
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	11	<0.1	1.2	1.6
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.3	0.7
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.2	0.2
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.3	0.3
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.4	0.3
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.2	0.2
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.2	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.4	0.3
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.3	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.2	0.1
Total +ve PAH's	mg/kg	<0.05	11	<0.05	3.7	4.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	126	123	120	97	82

PAHs in Soil						
Our Reference		330992-206	330992-208	330992-209	330992-211	330992-212
Your Reference	UNITS	329A	329A	329A	329A	329A
Depth		0.5-0.7	1.3-1.5	1.8-2	2.8-3	3.3-3.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	2.1	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	103	99	96	98

PAHs in Soil						
Our Reference		330992-213	330992-215	330992-216	330992-218	330992-219
Your Reference	UNITS	329A	329B	329B	329B	329B
Depth		3.8-4	0.1-0.2	0.5-0.7	1.5-1.6	2-2.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	0.1	1.4	0.2	1.0
Acenaphthylene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.7	0.2	<0.1	0.2
Anthracene	mg/kg	<0.1	0.3	0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	2.2	0.3	<0.1	0.4
Pyrene	mg/kg	<0.1	2.6	0.3	<0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	1.8	0.2	<0.1	0.1
Chrysene	mg/kg	<0.1	1.6	0.2	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	3.4	0.4	<0.2	0.2
Benzo(a)pyrene	mg/kg	<0.05	2.4	0.2	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	1.2	0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	1.2	0.2	<0.1	0.1
Total +ve PAH's	mg/kg	<0.05	18	3.7	0.2	2.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	3.3	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	3.3	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	3.3	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	104	107	107	108

PAHs in Soil						
Our Reference		330992-221	330992-222	330992-223	330992-224	330992-226
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		3.5-3.7	4.3-4.5	5-5.1	5.2-5.4	6.8-7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.1	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.09	0.07	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.4	0.2	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	112	95	105	74	70

PAHs in Soil						
Our Reference		330992-228	330992-229	330992-231	330992-233	330992-235
Your Reference	UNITS	329C	329C	329C	329C	329C
Depth		0.1-0.2	0.5-0.7	1.5-1.7	2.3-2.5	3.3-3.5
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	1.2	1	<0.1	<0.1	0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.4	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.2	0.09	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.2	3.4	0.09	<0.05	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	72	75	111	106	111

PAHs in Soil						
Our Reference		330992-237	330992-238	330992-240	330992-242	330992-244
Your Reference	UNITS	329C	329C	329C	329C	329D
Depth		4.1-4.3	4.6-4.8	5.6-5.8	6.8-7	0.1-0.3
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.9
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	0.3
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	2.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	112	119	100	112	99

PAHs in Soil						
Our Reference		330992-245	330992-246	330992-248	330992-252	330992-258
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		0.5-0.7	0.9-1.1	1.9-2.1	4-4.2	6.9-7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	6.2	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.3	<0.05	<0.05	6.2	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	111	109	109	107

PAHs in Soil						
Our Reference		330992-259	330992-261	330992-263	330992-265	330992-266
Your Reference	UNITS	330	330	330	BD2/20230810	BD1/20230811
Depth		0.1-0.3	1-1.2	2-2.2	-	-
Date Sampled		15/08/2023	15/08/2023	15/08/2023	10/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	25/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Naphthalene	mg/kg	0.3	0.6	0.6	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	0.3	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.1	0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	0.4	0.3	<0.1	<0.1
Pyrene	mg/kg	0.3	0.5	0.4	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	0.2	0.2	<0.1	<0.1
Chrysene	mg/kg	0.2	0.2	0.2	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	0.4	0.3	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	0.2	0.3	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	0.1	0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	0.2	0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	2.2	3.3	2.8	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	96	106	96	101	117

PAHs in Soil				
Our Reference		330992-269	330992-270	330992-288
Your Reference	UNITS	BD1/20230816	BD2/20230816	330 - [TRIPLICATE]
Depth		-	-	2-2.2
Date Sampled		16/08/2023	16/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	12/09/2023
Date analysed	-	28/08/2023	28/08/2023	12/09/2023
Naphthalene	mg/kg	<0.1	<0.1	0.6
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	0.4
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	1.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	108	95

Organochlorine Pesticides in soil						
Our Reference		330992-2	330992-7	330992-21	330992-23	330992-26
Your Reference	UNITS	301	302	303	303	303
Depth		0.5-0.7	0.8-1	0.2-0.4	1.2-1.4	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	137	134	133	132	132

Organochlorine Pesticides in soil						
Our Reference		330992-30	330992-42	330992-49	330992-60	330992-62
Your Reference	UNITS	304	306	309	310	310
Depth		0.2-0.3	0.2-0.3	0.2-0.4	0.2-0.4	0.8-1
Date Sampled		17/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	126	130	128	129	130

Organochlorine Pesticides in soil						
Our Reference		330992-71	330992-75	330992-86	330992-87	330992-99
Your Reference	UNITS	311	311	315	315	318
Depth		0.2-0.3	2-2.2	0.8-1	1.5-1.7	1-1.2
Date Sampled		10/08/2023	10/08/2023	11/08/2023	11/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	126	133	68	134	131

Organochlorine Pesticides in soil						
Our Reference		330992-109	330992-120	330992-128	330992-156	330992-164
Your Reference	UNITS	319	320A	321	322B	322C
Depth		0.25-0.35	0.15-0.25	0.2-0.4	0.2-0.4	0.6-0.8
Date Sampled		10/08/2023	16/08/2023	15/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	128	133	125	128	121

Organochlorine Pesticides in soil						
Our Reference		330992-175	330992-176	330992-182	330992-183	330992-189
Your Reference	UNITS	322D	322D	328D	328D	329
Depth		0.2-0.4	0.7-0.9	0.25-0.35	0.5-0.7	0.1-0.3
Date Sampled		15/08/2023	15/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	32	0.1	2.3
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	25	0.1	3.4
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	14	<0.1	2.7
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	71	0.3	8.5
Surrogate TCMX	%	117	138	135	138	135

Organochlorine Pesticides in soil						
Our Reference		330992-192	330992-205	330992-208	330992-215	330992-218
Your Reference	UNITS	329	329A	329A	329B	329B
Depth		1.3-1.5	0.1-0.3	1.3-1.5	0.1-0.2	1.5-1.6
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	1.1	0.2	0.2
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	4.8	0.2	3.2
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	0.9	0.3	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	6.7	0.7	3.4
Surrogate TCMX	%	134	98	128	126	127

Organochlorine Pesticides in soil						
Our Reference		330992-221	330992-223	330992-231	330992-244	330992-248
Your Reference	UNITS	329B	329B	329C	329D	329D
Depth		3.5-3.7	5-5.1	1.5-1.7	0.1-0.3	1.9-2.1
Date Sampled		14/08/2023	14/08/2023	15/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	2.0	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	0.4	<0.1	4.4	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	0.1	<0.1	2.9	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	0.5	<0.1	9.2	<0.1
Surrogate TCMX	%	133	126	130	123	128

Organochlorine Pesticides in soil			
Our Reference		330992-259	330992-263
Your Reference	UNITS	330	330
Depth		0.1-0.3	2-2.2
Date Sampled		15/08/2023	15/08/2023
Type of sample		Soil	Soil
Date extracted	-	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	1.2	1.6
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	3.3	6.7
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	1.8	1.6
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	6.2	10
Surrogate TCMX	%	122	119

Organophosphorus Pesticides in Soil						
Our Reference		330992-2	330992-21	330992-26	330992-30	330992-42
Your Reference	UNITS	301	303	303	304	306
Depth		0.5-0.7	0.2-0.4	2.6-2.8	0.2-0.3	0.2-0.3
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	137	133	132	126	130

Organophosphorus Pesticides in Soil						
Our Reference		330992-49	330992-60	330992-62	330992-71	330992-75
Your Reference	UNITS	309	310	310	311	311
Depth		0.2-0.4	0.2-0.4	0.8-1	0.2-0.3	2-2.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	128	129	130	126	133

Organophosphorus Pesticides in Soil						
Our Reference		330992-86	330992-87	330992-99	330992-109	330992-120
Your Reference	UNITS	315	315	318	319	320A
Depth		0.8-1	1.5-1.7	1-1.2	0.25-0.35	0.15-0.25
Date Sampled		11/08/2023	11/08/2023	15/08/2023	10/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	68	134	131	128	133

Organophosphorus Pesticides in Soil						
Our Reference		330992-128	330992-156	330992-164	330992-175	330992-182
Your Reference	UNITS	321	322B	322C	322D	328D
Depth		0.2-0.4	0.2-0.4	0.6-0.8	0.2-0.4	0.25-0.35
Date Sampled		15/08/2023	16/08/2023	16/08/2023	15/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	125	128	121	117	135

Organophosphorus Pesticides in Soil						
Our Reference		330992-183	330992-189	330992-215	330992-218	330992-223
Your Reference	UNITS	328D	329	329B	329B	329B
Depth		0.5-0.7	0.1-0.3	0.1-0.2	1.5-1.6	5-5.1
Date Sampled		11/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	138	135	126	127	126

Organophosphorus Pesticides in Soil				
Our Reference		330992-231	330992-244	330992-259
Your Reference	UNITS	329C	329D	330
Depth		1.5-1.7	0.1-0.3	0.1-0.3
Date Sampled		15/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	130	123	122

PCBs in Soil						
Our Reference		330992-2	330992-7	330992-21	330992-23	330992-26
Your Reference	UNITS	301	302	303	303	303
Depth		0.5-0.7	0.8-1	0.2-0.4	1.2-1.4	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	137	134	133	132	132

PCBs in Soil						
Our Reference		330992-30	330992-42	330992-49	330992-60	330992-62
Your Reference	UNITS	304	306	309	310	310
Depth		0.2-0.3	0.2-0.3	0.2-0.4	0.2-0.4	0.8-1
Date Sampled		17/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	126	130	128	129	130

PCBs in Soil						
Our Reference		330992-71	330992-75	330992-86	330992-87	330992-99
Your Reference	UNITS	311	311	315	315	318
Depth		0.2-0.3	2-2.2	0.8-1	1.5-1.7	1-1.2
Date Sampled		10/08/2023	10/08/2023	11/08/2023	11/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	126	133	68	134	131

PCBs in Soil						
Our Reference		330992-109	330992-120	330992-128	330992-156	330992-164
Your Reference	UNITS	319	320A	321	322B	322C
Depth		0.25-0.35	0.15-0.25	0.2-0.4	0.2-0.4	0.6-0.8
Date Sampled		10/08/2023	16/08/2023	15/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	128	133	125	128	121

PCBs in Soil						
Our Reference		330992-175	330992-176	330992-182	330992-183	330992-189
Your Reference	UNITS	322D	322D	328D	328D	329
Depth		0.2-0.4	0.7-0.9	0.25-0.35	0.5-0.7	0.1-0.3
Date Sampled		15/08/2023	15/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	117	138	135	138	135

PCBs in Soil						
Our Reference		330992-192	330992-205	330992-208	330992-215	330992-218
Your Reference	UNITS	329	329A	329A	329B	329B
Depth		1.3-1.5	0.1-0.3	1.3-1.5	0.1-0.2	1.5-1.6
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	134	98	128	126	127

PCBs in Soil						
Our Reference		330992-221	330992-223	330992-231	330992-244	330992-248
Your Reference	UNITS	329B	329B	329C	329D	329D
Depth		3.5-3.7	5-5.1	1.5-1.7	0.1-0.3	1.9-2.1
Date Sampled		14/08/2023	14/08/2023	15/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	133	126	130	123	128

PCBs in Soil			
Our Reference		330992-259	330992-263
Your Reference	UNITS	330	330
Depth		0.1-0.3	2-2.2
Date Sampled		15/08/2023	15/08/2023
Type of sample		Soil	Soil
Date extracted	-	22/08/2023	22/08/2023
Date analysed	-	28/08/2023	28/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	122	119

Misc Soil - Inorg						
Our Reference		330992-2	330992-21	330992-26	330992-27	330992-29
Your Reference	UNITS	301	303	303	303	303
Depth		0.5-0.7	0.2-0.4	2.6-2.8	3-3.2	4.8-5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-30	330992-34	330992-39	330992-42	330992-44
Your Reference	UNITS	304	304	304	306	306
Depth		0.2-0.3	1.7-1.9	4.8-5	0.2-0.3	0.8-1
Date Sampled		17/08/2023	17/08/2023	17/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-48	330992-49	330992-56	330992-59	330992-60
Your Reference	UNITS	306	309	309	309	310
Depth		3.8-4	0.2-0.4	4.8-5	7.8-8	0.2-0.4
Date Sampled		11/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-62	330992-64	330992-68	330992-71	330992-75
Your Reference	UNITS	310	310	310	311	311
Depth		0.8-1	1.6-1.8	5.6-5.8	0.2-0.3	2-2.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-79	330992-86	330992-87	330992-89	330992-90
Your Reference	UNITS	311	315	315	315	315
Depth		5.4-5.6	0.8-1	1.5-1.7	2.8-3	3.8-4
Date Sampled		10/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-91	330992-92	330992-93	330992-94	330992-99
Your Reference	UNITS	315	315	315	315	318
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	1-1.2
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-100	330992-104	330992-109	330992-110	330992-112
Your Reference	UNITS	318	318	319	319	319
Depth		1.5-1.7	4.5-4.7	0.25-0.35	0.5-0.7	1.4-1.6
Date Sampled		15/08/2023	15/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-117	330992-120	330992-128	330992-133	330992-134
Your Reference	UNITS	319	320A	321	321	321
Depth		5.8-6	0.15-0.25	0.2-0.4	4-4.2	5-5.2
Date Sampled		10/08/2023	16/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-156	330992-164	330992-170	330992-171	330992-175
Your Reference	UNITS	322B	322C	322C	322C	322D
Depth		0.2-0.4	0.6-0.8	4.8-5	5.8-6	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-182	330992-183	330992-185	330992-189	330992-215
Your Reference	UNITS	328D	328D	328D	329	329B
Depth		0.25-0.35	0.5-0.7	1.5-1.7	0.1-0.3	0.1-0.2
Date Sampled		11/08/2023	11/08/2023	11/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		330992-218	330992-223	330992-231	330992-238	330992-244
Your Reference	UNITS	329B	329B	329C	329C	329D
Depth		1.5-1.6	5-5.1	1.5-1.7	4.6-4.8	0.1-0.3
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg			
Our Reference		330992-259	330992-266
Your Reference	UNITS	330	BD1/20230811
Depth		0.1-0.3	-
Date Sampled		15/08/2023	11/08/2023
Type of sample		Soil	Soil
Date prepared	-	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5

Acid Extractable metals in soil						
Our Reference		330992-2	330992-3	330992-5	330992-7	330992-10
Your Reference	UNITS	301	301	302	302	302
Depth		0.5-0.7	1-1.2	0.2-0.4	0.8-1	2.3-2.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	2	<1	1
Copper	mg/kg	<1	<1	13	2	<1
Lead	mg/kg	2	<1	5	3	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	10	<1	1
Zinc	mg/kg	<1	<1	20	6	<1

Acid Extractable metals in soil						
Our Reference		330992-11	330992-21	330992-23	330992-24	330992-26
Your Reference	UNITS	302	303	303	303	303
Depth		2.8-3	0.2-0.4	1.2-1.4	1.7-1.9	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	2	2	2	3
Copper	mg/kg	<1	5	<1	2	<1
Lead	mg/kg	<1	4	3	5	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	<1	1
Zinc	mg/kg	<1	5	4	2	1

Acid Extractable metals in soil						
Our Reference		330992-27	330992-29	330992-30	330992-31	330992-34
Your Reference	UNITS	303	303	304	304	304
Depth		3-3.2	4.8-5	0.2-0.3	0.3-0.5	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	1	9	1	3
Copper	mg/kg	<1	<1	110	<1	<1
Lead	mg/kg	1	<1	6	5	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	19	<1	2
Zinc	mg/kg	1	1	16	4	1

Acid Extractable metals in soil						
Our Reference		330992-39	330992-42	330992-44	330992-48	330992-49
Your Reference	UNITS	304	306	306	306	309
Depth		4.8-5	0.2-0.3	0.8-1	3.8-4	0.2-0.4
Date Sampled		17/08/2023	11/08/2023	11/08/2023	11/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	1	5	1	2
Copper	mg/kg	<1	6	<1	<1	6
Lead	mg/kg	<1	3	<1	<1	30
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	2	<1	<1	4
Zinc	mg/kg	1	5	1	1	4

Acid Extractable metals in soil						
Our Reference		330992-50	330992-52	330992-56	330992-57	330992-59
Your Reference	UNITS	309	309	309	309	309
Depth		0.5-0.7	1.2-1.4	4.8-5	5.8-6	7.8-8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	1	1	<1
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	2	1	<1	<1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	<1	<1
Zinc	mg/kg	3	<1	1	1	1

Acid Extractable metals in soil						
Our Reference		330992-60	330992-62	330992-64	330992-68	330992-71
Your Reference	UNITS	310	310	310	310	311
Depth		0.2-0.4	0.8-1	1.6-1.8	5.6-5.8	0.2-0.3
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	32	<1	2	1	9
Copper	mg/kg	20	<1	<1	<1	51
Lead	mg/kg	6	2	1	<1	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	34	<1	<1	<1	7
Zinc	mg/kg	40	<1	2	2	18

Acid Extractable metals in soil						
Our Reference		330992-72	330992-75	330992-79	330992-81	330992-82
Your Reference	UNITS	311	311	311	311	311
Depth		0.5-0.7	2-2.2	5.4-5.6	7.4-7.6	8.4-8.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	19	30	<4	<4	<4
Cadmium	mg/kg	0.4	0.5	<0.4	<0.4	<0.4
Chromium	mg/kg	66	41	5	<1	1
Copper	mg/kg	27	70	4	<1	<1
Lead	mg/kg	64	51	9	<1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	3	1	<1	<1
Zinc	mg/kg	110	470	31	3	4

Acid Extractable metals in soil						
Our Reference		330992-84	330992-86	330992-87	330992-89	330992-90
Your Reference	UNITS	315	315	315	315	315
Depth		0.2-0.3	0.8-1	1.5-1.7	2.8-3	3.8-4
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	0.9	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	100	2	5	1	1
Copper	mg/kg	50	<1	<1	<1	<1
Lead	mg/kg	710	2	3	<1	<1
Mercury	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	67	<1	2	<1	<1
Zinc	mg/kg	460	11	4	1	<1

Acid Extractable metals in soil						
Our Reference		330992-91	330992-92	330992-93	330992-94	330992-97
Your Reference	UNITS	315	315	315	315	318
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	0.2-0.4
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	1	2	1	1
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	<1	<1	<1	<1	1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	<1	<1	<1
Zinc	mg/kg	1	1	2	2	10

Acid Extractable metals in soil						
Our Reference		330992-99	330992-100	330992-102	330992-104	330992-105
Your Reference	UNITS	318	318	318	318	318
Depth		1-1.2	1.5-1.7	2.5-2.7	4.5-4.7	4.8-5
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	3	2	1	2	1
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	2	<1	<1	<1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	<1	<1	<1
Zinc	mg/kg	2	1	<1	1	2

Acid Extractable metals in soil						
Our Reference		330992-107	330992-109	330992-110	330992-111	330992-112
Your Reference	UNITS	318	319	319	319	319
Depth		6.8-7	0.25-0.35	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	<1	43	1	11	2
Copper	mg/kg	<1	22	<1	1	<1
Lead	mg/kg	<1	140	3	7	1
Mercury	mg/kg	<0.1	0.6	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	25	<1	<1	<1
Zinc	mg/kg	<1	67	3	12	<1

Acid Extractable metals in soil						
Our Reference		330992-115	330992-117	330992-119	330992-120	330992-121
Your Reference	UNITS	319	319	319	320A	320A
Depth		3.8-4	5.8-6	7.8-8	0.15-0.25	0.5-0.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	1	8	9
Copper	mg/kg	<1	<1	<1	1	2
Lead	mg/kg	1	<1	<1	67	83
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	1	<1	<1	<1	1
Zinc	mg/kg	1	2	<1	5	4

Acid Extractable metals in soil						
Our Reference		330992-123	330992-124	330992-125	330992-128	330992-130
Your Reference	UNITS	320B	320B	320B	321	321
Depth		0.2-0.4	0.5-0.7	0.8-1	0.2-0.4	1-1.2
Date Sampled		17/08/2023	17/08/2023	17/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	3	1	9	8
Copper	mg/kg	13	1	<1	35	29
Lead	mg/kg	120	12	<1	42	25
Mercury	mg/kg	<0.1	<0.1	<0.1	1.1	0.4
Nickel	mg/kg	10	1	<1	7	7
Zinc	mg/kg	53	14	1	51	180

Acid Extractable metals in soil						
Our Reference		330992-131	330992-133	330992-134	330992-135	330992-138
Your Reference	UNITS	321	321	321	321	322
Depth		2-2.2	4-4.2	5-5.2	6-6.2	0.2-0.4
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	11	3	2	3	77
Copper	mg/kg	22	<1	<1	<1	15
Lead	mg/kg	28	3	1	1	560
Mercury	mg/kg	0.8	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	7	1	<1	<1	13
Zinc	mg/kg	46	6	3	2	110

Acid Extractable metals in soil						
Our Reference		330992-139	330992-141	330992-142	330992-144	330992-146
Your Reference	UNITS	322	322	322	322	322A
Depth		0.6-0.8	1.8-2	2.3-2.5	3-3.2	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	0.7
Chromium	mg/kg	5	3	2	2	130
Copper	mg/kg	1	19	4	<1	48
Lead	mg/kg	4	36	22	<1	3,800
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	95
Nickel	mg/kg	<1	<1	<1	<1	29
Zinc	mg/kg	8	46	26	2	490

Acid Extractable metals in soil						
Our Reference		330992-147	330992-148	330992-150	330992-151	330992-153
Your Reference	UNITS	322A	322A	322A	322A	322A
Depth		0.6-0.8	1-1.2	1.8-2	2.3-2.5	3.3-3.5
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	3	18	3	2	2
Copper	mg/kg	<1	3	<1	<1	<1
Lead	mg/kg	5	260	14	10	<1
Mercury	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	<1	<1
Zinc	mg/kg	4	28	6	4	9

Acid Extractable metals in soil						
Our Reference		330992-155	330992-156	330992-157	330992-159	330992-160
Your Reference	UNITS	322A	322B	322B	322B	322B
Depth		4.3-4.5	0.2-0.4	0.5-0.7	1.5-1.7	2-2.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	26	3	1	3
Copper	mg/kg	<1	22	1	2	2
Lead	mg/kg	<1	430	8	6	25
Mercury	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	12	<1	<1	<1
Zinc	mg/kg	15	100	6	12	21

Acid Extractable metals in soil						
Our Reference		330992-161	330992-163	330992-164	330992-165	330992-166
Your Reference	UNITS	322B	322C	322C	322C	322C
Depth		3-3.2	0.2-0.4	0.6-0.8	1.2-1.4	1.5-1.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	6	56	50	1	<1
Copper	mg/kg	<1	28	26	<1	<1
Lead	mg/kg	<1	8	16	<1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	65	56	<1	<1
Zinc	mg/kg	39	38	46	<1	<1

Acid Extractable metals in soil						
Our Reference		330992-167	330992-168	330992-170	330992-171	330992-173
Your Reference	UNITS	322C	322C	322C	322C	322C
Depth		2.5-2.7	3.3-3.5	4.8-5	5.8-6	7.8-8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	1
Chromium	mg/kg	1	2	1	3	1
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	<1	<1	<1	2	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	<1	<1	<1
Zinc	mg/kg	<1	<1	4	2	8

Acid Extractable metals in soil						
Our Reference		330992-175	330992-176	330992-178	330992-179	330992-180
Your Reference	UNITS	322D	322D	322D	322D	322D
Depth		0.2-0.4	0.7-0.9	1.7-1.9	2.2-2.4	2.6-2.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	43	5	2	<1	3
Copper	mg/kg	24	<1	1	2	1
Lead	mg/kg	380	3	19	1	22
Mercury	mg/kg	1.0	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	<1	<1	<1	<1
Zinc	mg/kg	75	6	22	7	18

Acid Extractable metals in soil						
Our Reference		330992-182	330992-183	330992-185	330992-187	330992-188
Your Reference	UNITS	328D	328D	328D	328D	328D
Depth		0.25-0.35	0.5-0.7	1.5-1.7	2.4-2.6	3-3.2
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	9	<4	<4	<4
Cadmium	mg/kg	14	4	0.6	<0.4	<0.4
Chromium	mg/kg	510	140	20	7	6
Copper	mg/kg	1,200	79	5	<1	<1
Lead	mg/kg	3,800	150	36	1	1
Mercury	mg/kg	150	7.2	1.8	<0.1	<0.1
Nickel	mg/kg	41	4	<1	1	1
Zinc	mg/kg	830	320	15	11	9

Acid Extractable metals in soil						
Our Reference		330992-189	330992-190	330992-192	330992-194	330992-195
Your Reference	UNITS	329	329	329	329	329
Depth		0.1-0.3	0.5-0.7	1.3-1.5	2.3-2.5	2.8-3
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	4	<4	<4	8
Cadmium	mg/kg	0.7	3	<0.4	<0.4	17
Chromium	mg/kg	77	300	47	91	140
Copper	mg/kg	37	190	24	22	8
Lead	mg/kg	410	4,800	450	160	49
Mercury	mg/kg	22	18	0.3	0.6	0.7
Nickel	mg/kg	10	10	3	4	5
Zinc	mg/kg	190	510	86	87	330

Acid Extractable metals in soil						
Our Reference		330992-197	330992-200	330992-202	330992-203	330992-205
Your Reference	UNITS	329	329	329	329	329A
Depth		3.8-4	5-5.2	6-6.2	6.5-6.7	0.1-0.3
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	4.5
Chromium	mg/kg	30	23	7	7	200
Copper	mg/kg	3	<1	<1	<1	96
Lead	mg/kg	57	2	1	1	1,200
Mercury	mg/kg	0.5	0.2	<0.1	<0.1	15
Nickel	mg/kg	1	1	<1	<1	16
Zinc	mg/kg	18	9	2	5	640

Acid Extractable metals in soil						
Our Reference		330992-206	330992-208	330992-209	330992-211	330992-212
Your Reference	UNITS	329A	329A	329A	329A	329A
Depth		0.5-0.7	1.3-1.5	1.8-2	2.8-3	3.3-3.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	1	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	140	23	63	20	3
Copper	mg/kg	68	49	14	13	4
Lead	mg/kg	870	210	420	66	38
Mercury	mg/kg	10	36	2.6	<0.1	<0.1
Nickel	mg/kg	8	14	6	4	1
Zinc	mg/kg	280	120	98	56	44

Acid Extractable metals in soil						
Our Reference		330992-213	330992-215	330992-216	330992-218	330992-219
Your Reference	UNITS	329A	329B	329B	329B	329B
Depth		3.8-4	0.1-0.2	0.5-0.7	1.5-1.6	2-2.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	5	<4	<4
Cadmium	mg/kg	<0.4	<0.4	2	7.4	<0.4
Chromium	mg/kg	2	99	230	31	46
Copper	mg/kg	<1	24	69	18	5
Lead	mg/kg	2	100	1,200	150	220
Mercury	mg/kg	<0.1	0.6	11	16	2.0
Nickel	mg/kg	<1	9	13	5	4
Zinc	mg/kg	3	76	510	140	72

Acid Extractable metals in soil						
Our Reference		330992-221	330992-222	330992-223	330992-224	330992-226
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		3.5-3.7	4.3-4.5	5-5.1	5.2-5.4	6.8-7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	29	45	11	22
Cadmium	mg/kg	<0.4	1	<0.4	<0.4	<0.4
Chromium	mg/kg	2	39	9	2	59
Copper	mg/kg	2	15	11	<1	2
Lead	mg/kg	9	30	28	2	4
Mercury	mg/kg	0.3	1.2	1.1	<0.1	<0.1
Nickel	mg/kg	1	9	2	<1	1
Zinc	mg/kg	14	140	65	15	48

Acid Extractable metals in soil						
Our Reference		330992-228	330992-229	330992-231	330992-233	330992-235
Your Reference	UNITS	329C	329C	329C	329C	329C
Depth		0.1-0.2	0.5-0.7	1.5-1.7	2.3-2.5	3.3-3.5
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	5
Cadmium	mg/kg	0.6	2	<0.4	<0.4	<0.4
Chromium	mg/kg	61	190	12	2	34
Copper	mg/kg	27	86	8	<1	59
Lead	mg/kg	320	1,400	40	3	240
Mercury	mg/kg	3.8	13	0.4	<0.1	1.3
Nickel	mg/kg	11	11	2	<1	5
Zinc	mg/kg	120	580	71	6	97

Acid Extractable metals in soil						
Our Reference		330992-237	330992-238	330992-240	330992-242	330992-244
Your Reference	UNITS	329C	329C	329C	329C	329D
Depth		4.1-4.3	4.6-4.8	5.6-5.8	6.8-7	0.1-0.3
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	23	12	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	2
Chromium	mg/kg	2	12	3	6	200
Copper	mg/kg	<1	<1	1	<1	57
Lead	mg/kg	3	3	5	<1	1,000
Mercury	mg/kg	<0.1	<0.1	0.2	<0.1	12
Nickel	mg/kg	<1	<1	1	<1	18
Zinc	mg/kg	4	47	13	8	290

Acid Extractable metals in soil						
Our Reference		330992-245	330992-246	330992-248	330992-252	330992-258
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		0.5-0.7	0.9-1.1	1.9-2.1	4-4.2	6.9-7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	11	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	92	61	6	11	26
Copper	mg/kg	35	24	3	<1	<1
Lead	mg/kg	200	360	25	5	2
Mercury	mg/kg	5.8	0.7	0.2	<0.1	<0.1
Nickel	mg/kg	70	3	2	<1	<1
Zinc	mg/kg	170	75	80	220	8

Acid Extractable metals in soil						
Our Reference		330992-259	330992-261	330992-263	330992-265	330992-266
Your Reference	UNITS	330	330	330	BD2/20230810	BD1/20230811
Depth		0.1-0.3	1-1.2	2-2.2	-	-
Date Sampled		15/08/2023	15/08/2023	15/08/2023	10/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	6	5	4	<4	<4
Cadmium	mg/kg	3	1	0.7	<0.4	<0.4
Chromium	mg/kg	120	210	89	1	2
Copper	mg/kg	180	140	100	<1	<1
Lead	mg/kg	430	1,200	670	1	2
Mercury	mg/kg	7.2	50	27	<0.1	<0.1
Nickel	mg/kg	36	16	32	<1	<1
Zinc	mg/kg	530	920	360	1	2

Acid Extractable metals in soil						
Our Reference		330992-269	330992-270	330992-280	330992-281	330992-282
Your Reference	UNITS	BD1/20230816	BD2/20230816	310 - [TRIPLICATE]	322B - [TRIPLICATE]	322C - [TRIPLICATE]
Depth		-	-	0.2-0.4	0.2-0.4	0.6-0.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	1	2	23	47
Copper	mg/kg	<1	<1	12	27	32
Lead	mg/kg	1	<1	5	410	12
Mercury	mg/kg	<0.1	<0.1	<0.1	0.6	<0.1
Nickel	mg/kg	1	<1	3	15	60
Zinc	mg/kg	13	<1	32	86	47

Acid Extractable metals in soil						
Our Reference		330992-283	330992-284	330992-285	330992-286	330992-287
Your Reference	UNITS	328D - [TRIPLICATE]	329 - [TRIPLICATE]	329B - [TRIPLICATE]	329C - [TRIPLICATE]	329D - [TRIPLICATE]
Depth		0.25-0.35	0.5-0.7	1.5-1.6	6.8-7	0.5-0.7
Date Sampled		11/08/2023	14/08/2023	14/08/2023	15/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Arsenic	mg/kg	<4	5	<4	<4	<4
Cadmium	mg/kg	15	3	4.7	<0.4	<0.4
Chromium	mg/kg	450	220	24	13	110
Copper	mg/kg	1,100	100	30	<1	44
Lead	mg/kg	5,600	1,400	94	1	280
Mercury	mg/kg	170	20	18	<0.1	5.9
Nickel	mg/kg	31	10	26	<1	84
Zinc	mg/kg	780	380	86	9	260

Moisture						
Our Reference		330992-2	330992-3	330992-5	330992-7	330992-10
Your Reference	UNITS	301	301	302	302	302
Depth		0.5-0.7	1-1.2	0.2-0.4	0.8-1	2.3-2.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	3.5	3.1	14	2.5	1.6

Moisture						
Our Reference		330992-11	330992-13	330992-15	330992-18	330992-20
Your Reference	UNITS	302	302	302	302	302
Depth		2.8-3	4.8-5	6.8-7	9.8-10	11.5-11.6
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	0.6	13	16	16	20

Moisture						
Our Reference		330992-21	330992-23	330992-24	330992-25	330992-26
Your Reference	UNITS	303	303	303	303	303
Depth		0.2-0.4	1.2-1.4	1.7-1.9	2.1-2.3	2.6-2.8
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	3.2	5.2	2.8	10	8.5

Moisture						
Our Reference		330992-27	330992-29	330992-30	330992-31	330992-34
Your Reference	UNITS	303	303	304	304	304
Depth		3-3.2	4.8-5	0.2-0.3	0.3-0.5	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	2.6	13	19	0.7	7.4

Moisture						
Our Reference		330992-36	330992-37	330992-38	330992-39	330992-40
Your Reference	UNITS	304	304	304	304	304
Depth		2.8-3	3.8-4	4.3-4.5	4.8-5	5.3-5.5
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	2.9	3.0	3.3	11	14

Moisture						
Our Reference		330992-41	330992-42	330992-44	330992-45	330992-48
Your Reference	UNITS	304	306	306	306	306
Depth		5.8-6	0.2-0.3	0.8-1	1.2-1.4	3.8-4
Date Sampled		17/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	15	3.5	1	18	3.9

Moisture						
Our Reference		330992-49	330992-50	330992-51	330992-52	330992-53
Your Reference	UNITS	309	309	309	309	309
Depth		0.2-0.4	0.5-0.7	0.9-1.1	1.2-1.4	1.8-2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	9.8	9.0	9.0	9.2	4.9

Moisture						
Our Reference		330992-54	330992-56	330992-57	330992-59	330992-60
Your Reference	UNITS	309	309	309	309	310
Depth		2.8-3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	12	4.1	17	22	11

Moisture						
Our Reference		330992-62	330992-64	330992-66	330992-67	330992-68
Your Reference	UNITS	310	310	310	310	310
Depth		0.8-1	1.6-1.8	3.6-3.8	4.6-4.8	5.6-5.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	8.2	6.7	3.0	12	15

Moisture						
Our Reference		330992-69	330992-70	330992-71	330992-72	330992-75
Your Reference	UNITS	310	310	311	311	311
Depth		6.6-6.8	7.6-7.8	0.2-0.3	0.5-0.7	2-2.2
Date Sampled		16/08/2023	16/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	20	19	8.1	3.8	6.1

Moisture						
Our Reference		330992-77	330992-78	330992-79	330992-80	330992-81
Your Reference	UNITS	311	311	311	311	311
Depth		3.4-3.6	4.4-4.6	5.4-5.6	6.4-6.6	7.4-7.6
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	2.8	2.1	8.5	9.5	9.5

Moisture						
Our Reference		330992-82	330992-84	330992-86	330992-87	330992-89
Your Reference	UNITS	311	315	315	315	315
Depth		8.4-8.6	0.2-0.3	0.8-1	1.5-1.7	2.8-3
Date Sampled		10/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	17	11	7.6	15	8.0

Moisture						
Our Reference		330992-90	330992-91	330992-92	330992-93	330992-94
Your Reference	UNITS	315	315	315	315	315
Depth		3.8-4	4.8-5	5.3-5.5	5.8-6	6.3-6.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	1.1	3.0	12	16	14

Moisture						
Our Reference		330992-95	330992-96	330992-97	330992-99	330992-100
Your Reference	UNITS	315	315	318	318	318
Depth		6.8-7	7.8-8	0.2-0.4	1-1.2	1.5-1.7
Date Sampled		11/08/2023	11/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	16	9.9	4.5	8.1	6.4

Moisture						
Our Reference		330992-102	330992-103	330992-104	330992-105	330992-106
Your Reference	UNITS	318	318	318	318	318
Depth		2.5-2.7	3.5-3.7	4.5-4.7	4.8-5	5.8-6
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	7.4	5.9	10	13	9.2

Moisture						
Our Reference		330992-107	330992-109	330992-110	330992-111	330992-112
Your Reference	UNITS	318	319	319	319	319
Depth		6.8-7	0.25-0.35	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	16	11	4.1	7.4	4.4

Moisture						
Our Reference		330992-114	330992-115	330992-116	330992-117	330992-118
Your Reference	UNITS	319	319	319	319	319
Depth		2.8-3	3.8-4	4.8-5	5.8-6	6.8-7
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	3.9	8.3	14	20	13

Moisture						
Our Reference		330992-119	330992-120	330992-121	330992-123	330992-124
Your Reference	UNITS	319	320A	320A	320B	320B
Depth		7.8-8	0.15-0.25	0.5-0.6	0.2-0.4	0.5-0.7
Date Sampled		10/08/2023	16/08/2023	16/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	18	0.5	3.8	8.7	3.7

Moisture						
Our Reference		330992-125	330992-128	330992-130	330992-131	330992-133
Your Reference	UNITS	320B	321	321	321	321
Depth		0.8-1	0.2-0.4	1-1.2	2-2.2	4-4.2
Date Sampled		17/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	31	11	11	3.8	7.1

Moisture						
Our Reference		330992-134	330992-135	330992-136	330992-138	330992-139
Your Reference	UNITS	321	321	321	322	322
Depth		5-5.2	6-6.2	7-7.2	0.2-0.4	0.6-0.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	2.0	6.5	33	13	5.0

Moisture						
Our Reference		330992-141	330992-142	330992-144	330992-146	330992-147
Your Reference	UNITS	322	322	322	322A	322A
Depth		1.8-2	2.3-2.5	3-3.2	0.2-0.4	0.6-0.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	8.3	6.7	9.7	18	7.0

Moisture						
Our Reference		330992-148	330992-150	330992-151	330992-153	330992-155
Your Reference	UNITS	322A	322A	322A	322A	322A
Depth		1-1.2	1.8-2	2.3-2.5	3.3-3.5	4.3-4.5
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	7.3	4.6	5.8	7.6	6.4

Moisture						
Our Reference		330992-156	330992-157	330992-159	330992-160	330992-161
Your Reference	UNITS	322B	322B	322B	322B	322B
Depth		0.2-0.4	0.5-0.7	1.5-1.7	2-2.2	3-3.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	8.9	8.1	6.5	5.5	4.8

Moisture						
Our Reference		330992-163	330992-164	330992-165	330992-166	330992-167
Your Reference	UNITS	322C	322C	322C	322C	322C
Depth		0.2-0.4	0.6-0.8	1.2-1.4	1.5-1.7	2.5-2.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	11	11	4.3	2.4	3.5

Moisture						
Our Reference		330992-168	330992-170	330992-171	330992-173	330992-175
Your Reference	UNITS	322C	322C	322C	322C	322D
Depth		3.3-3.5	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	0.9	6.5	21	16	5.9

Moisture						
Our Reference		330992-176	330992-178	330992-179	330992-180	330992-182
Your Reference	UNITS	322D	322D	322D	322D	328D
Depth		0.7-0.9	1.7-1.9	2.2-2.4	2.6-2.8	0.25-0.35
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	5.2	21	9.1	6.0	13

Moisture						
Our Reference		330992-183	330992-185	330992-187	330992-188	330992-189
Your Reference	UNITS	328D	328D	328D	328D	329
Depth		0.5-0.7	1.5-1.7	2.4-2.6	3-3.2	0.1-0.3
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	4.5	7.1	3.4	3.7	8.2

Moisture						
Our Reference		330992-190	330992-192	330992-194	330992-195	330992-197
Your Reference	UNITS	329	329	329	329	329
Depth		0.5-0.7	1.3-1.5	2.3-2.5	2.8-3	3.8-4
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	6.5	7.0	11	18	5.3

Moisture						
Our Reference		330992-198	330992-199	330992-200	330992-201	330992-202
Your Reference	UNITS	329	329	329	329	329
Depth		4.1-4.3	4.6-4.8	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	9.0	9.8	11	15	14

Moisture						
Our Reference		330992-203	330992-204	330992-205	330992-206	330992-208
Your Reference	UNITS	329	329	329A	329A	329A
Depth		6.5-6.7	6.8-7	0.1-0.3	0.5-0.7	1.3-1.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	14	11	15	5.4	3.3

Moisture						
Our Reference		330992-209	330992-211	330992-212	330992-213	330992-215
Your Reference	UNITS	329A	329A	329A	329A	329B
Depth		1.8-2	2.8-3	3.3-3.5	3.8-4	0.1-0.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	6.8	12	12	8.6	9.2

Moisture						
Our Reference		330992-216	330992-218	330992-219	330992-221	330992-222
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		0.5-0.7	1.5-1.6	2-2.2	3.5-3.7	4.3-4.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	7.9	8.9	7.8	4.4	14

Moisture						
Our Reference		330992-223	330992-224	330992-226	330992-228	330992-229
Your Reference	UNITS	329B	329B	329B	329C	329C
Depth		5-5.1	5.2-5.4	6.8-7	0.1-0.2	0.5-0.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	22	15	17	4.5	5.5

Moisture						
Our Reference		330992-231	330992-233	330992-235	330992-237	330992-238
Your Reference	UNITS	329C	329C	329C	329C	329C
Depth		1.5-1.7	2.3-2.5	3.3-3.5	4.1-4.3	4.6-4.8
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	4.6	7.0	7.0	5.5	14

Moisture						
Our Reference		330992-239	330992-240	330992-242	330992-244	330992-245
Your Reference	UNITS	329C	329C	329C	329D	329D
Depth		5.1-5.3	5.6-5.8	6.8-7	0.1-0.3	0.5-0.7
Date Sampled		15/08/2023	15/08/2023	15/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	9.5	14	17	9.1	18

Moisture						
Our Reference		330992-246	330992-248	330992-249	330992-250	330992-251
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		0.9-1.1	1.9-2.1	2.4-2.6	2.9-3.1	3.4-3.6
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	3.9	4.2	4.0	4.4	5.4

Moisture						
Our Reference		330992-252	330992-253	330992-254	330992-255	330992-256
Your Reference	UNITS	329D	329D	329D	329D	329D
Depth		4-4.2	4.5-4.7	5-5.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	15	4.9	14	9.2	13

Moisture						
Our Reference		330992-257	330992-258	330992-259	330992-261	330992-263
Your Reference	UNITS	329D	329D	330	330	330
Depth		6.5-6.7	6.9-7	0.1-0.3	1-1.2	2-2.2
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	22	14	14	11	11

Moisture						
Our Reference		330992-265	330992-266	330992-269	330992-270	330992-271
Your Reference	UNITS	BD2/20230810	BD1/20230811	BD1/20230816	BD2/20230816	BD3/20230816
Depth		-	-	-	-	-
Date Sampled		10/08/2023	11/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	23/08/2023	23/08/2023	23/08/2023	23/08/2023	23/08/2023
Moisture	%	3.8	3.0	3.9	3.9	11

Asbestos ID - soils NEPM						
Our Reference		330992-2	330992-7	330992-21	330992-23	330992-24
Your Reference	UNITS	301	302	303	303	303
Depth		0.5-0.7	0.8-1	0.2-0.4	1.2-1.4	1.7-1.9
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	17/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	371.68	329.77	502.88	309.04	393.96
Sample Description	-	Beige sandy soil	Brown sandy soil	Brown sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-26	330992-30	330992-31	330992-42	330992-49
Your Reference	UNITS	303	304	304	306	309
Depth		2.6-2.8	0.2-0.3	0.3-0.5	0.2-0.3	0.2-0.4
Date Sampled		17/08/2023	17/08/2023	17/08/2023	11/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	271.34	334.51	272	765.92	571.28
Sample Description	-	Brown sandy soil & rocks	Grey coarse-grained soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-50	330992-60	330992-62	330992-71	330992-72
Your Reference	UNITS	309	310	310	311	311
Depth		0.5-0.7	0.2-0.4	0.8-1	0.2-0.3	0.5-0.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	446.31	547.24	234.52	719.32	398.82
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-75	330992-84	330992-97	330992-99	330992-109
Your Reference	UNITS	311	315	318	318	319
Depth		2-2.2	0.2-0.3	0.2-0.4	1-1.2	0.25-0.35
Date Sampled		10/08/2023	11/08/2023	15/08/2023	15/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	490.44	516.43	571.24	348.83	770.99
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	3.2443	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	1.6754	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.3244	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-120	330992-123	330992-128	330992-130	330992-131
Your Reference	UNITS	320A	320B	321	321	321
Depth		0.15-0.25	0.2-0.4	0.2-0.4	1-1.2	2-2.2
Date Sampled		16/08/2023	17/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	28/08/2023
Sample mass tested	g	358.15	281	511.29	602.23	733.01
Sample Description	-	Beige sandy soil & rocks	Brown sandy soil & rocks	Grey fine-grained soil & rocks	Grey fine-grained soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	Chrysotile	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	0.0002	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-138	330992-146	330992-147	330992-148	330992-150
Your Reference	UNITS	322	322A	322A	322A	322A
Depth		0.2-0.4	0.2-0.4	0.6-0.8	1-1.2	1.8-2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Sample mass tested	g	287.44	378.08	317.6	266.25	230.03
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil & rocks	Beige sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	4.3526	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	1.2694	–	–	–
FA and AF Estimation*	g	–	0.3762	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.0995	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-151	330992-156	330992-159	330992-163	330992-164
Your Reference	UNITS	322A	322B	322B	322C	322C
Depth		2.3-2.5	0.2-0.4	1.5-1.7	0.2-0.4	0.6-0.8
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	25/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Sample mass tested	g	284.06	540.05	163	268.33	140
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	0.4302	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	0.0447	–	–	–
FA and AF Estimation*	g	–	0.1877	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.0347	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-175	330992-176	330992-178	330992-182	330992-183
Your Reference	UNITS	322D	322D	322D	328D	328D
Depth		0.2-0.4	0.7-0.9	1.7-1.9	0.25-0.35	0.5-0.7
Date Sampled		15/08/2023	15/08/2023	15/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Sample mass tested	g	412.26	319.94	733.01	477.2	376.1
Sample Description	-	Brown sandy soil & rocks	Beige sandy soil & rocks	Beige sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	0.1079	<0.1	<0.1	0.1516	<0.1
Asbestos ID in soil <0.1g/kg*	-	See Above	No visible asbestos detected	No visible asbestos detected	See Above	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	0.0445	–	–	0.0723	–
FA and AF Estimation*#2	%(w/w)	0.0108	<0.001	<0.001	0.0152	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-205	330992-208	330992-211	330992-212	330992-215
Your Reference	UNITS	329A	329A	329A	329A	329B
Depth		0.1-0.3	1.3-1.5	2.8-3	3.3-3.5	0.1-0.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Sample mass tested	g	334.45	291.15	292.54	364.74	412.91
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	Chrysotile Amosite Crocidolite	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	0.0182	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-216	330992-218	330992-221	330992-222	330992-228
Your Reference	UNITS	329B	329B	329B	329B	329C
Depth		0.5-0.7	1.5-1.6	3.5-3.7	4.3-4.5	0.1-0.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Sample mass tested	g	297.03	443.85	386.56	406.78	277.77
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	3.1070	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	See Above	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	0.9229	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		330992-231	330992-233	330992-244	330992-248	330992-259
Your Reference	UNITS	329C	329C	329D	329D	330
Depth		1.5-1.7	2.3-2.5	0.1-0.3	1.9-2.1	0.1-0.3
Date Sampled		15/08/2023	15/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Sample mass tested	g	346.18	306.29	227.28	295.76	310.1
Sample Description	-	Beige sandy soil & rocks	Beige sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	Chrysotile Amosite Crocidolite	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	0.0198	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	0.0087	<0.001	<0.001

Asbestos ID - soils NEPM			
Our Reference		330992-261	330992-263
Your Reference	UNITS	330	330
Depth		1-1.2	2-2.2
Date Sampled		15/08/2023	15/08/2023
Type of sample		Soil	Soil
Date analysed	-	28/08/2023	28/08/2023
Sample mass tested	g	383.49	447.2
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	1.2309
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above
ACM >7mm Estimation*	g	–	0.2447
FA and AF Estimation*	g	–	0.3058
FA and AF Estimation*#2	%(w/w)	<0.001	0.0684

Asbestos ID - soils		
Our Reference		330992-223
Your Reference	UNITS	329B
Depth		5-5.1
Date Sampled		14/08/2023
Type of sample		Soil
Date analysed	-	28/08/2023
Sample mass tested	g	Approx. 35g
Sample Description	-	Black sandy soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	NO
Trace Analysis	-	No asbestos detected

PFAS in Soils Short						
Our Reference		330992-21	330992-24	330992-26	330992-29	330992-42
Your Reference	UNITS	303	303	303	303	306
Depth		0.2-0.4	1.7-1.9	2.6-2.8	4.8-5	0.2-0.3
Date Sampled		17/08/2023	17/08/2023	17/08/2023	17/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	0.2	<0.1	<0.1	0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	98	95	98	97	94
Surrogate $^{13}C_2$ *PFOA*	%	98	99	98	98	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	104	106	102	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	105	114	111	106	113
Extracted ISTD $^{13}C_4$ *PFOA*	%	108	111	111	107	119
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	105	108	115	104	126
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	117	112	117	114	136
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	0.2	<0.1	<0.1	0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-44	330992-48	330992-71	330992-72	330992-75
Your Reference	UNITS	306	306	311	311	311
Depth		0.8-1	3.8-4	0.2-0.3	0.5-0.7	2-2.2
Date Sampled		11/08/2023	11/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	95	98	95	100	97
Surrogate $^{13}C_2$ *PFOA*	%	98	99	99	95	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	109	108	108	105	103
Extracted ISTD $^{13}C_4$ *PFOS*	%	111	114	112	112	112
Extracted ISTD $^{13}C_4$ *PFOA*	%	118	113	115	120	121
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	127	115	118	113	130
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	137	110	121	117	148
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-77	330992-78	330992-79	330992-82	330992-84
Your Reference	UNITS	311	311	311	311	315
Depth		3.4-3.6	4.4-4.6	5.4-5.6	8.4-8.6	0.2-0.3
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	0.9
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	10
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	0.3
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	100	101	98	98	99
Surrogate $^{13}C_2$ *PFOA*	%	99	97	100	98	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	104	105	104	101	103
Extracted ISTD $^{13}C_4$ *PFOS*	%	112	108	110	103	107
Extracted ISTD $^{13}C_4$ *PFOA*	%	118	113	107	106	124
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	114	114	110	115	156
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	117	113	110	122	178
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	11
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	11
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1	<0.1	12

PFAS in Soils Short						
Our Reference		330992-86	330992-87	330992-90	330992-91	330992-92
Your Reference	UNITS	315	315	315	315	315
Depth		0.8-1	1.5-1.7	3.8-4	4.8-5	5.3-5.5
Date Sampled		11/08/2023	11/08/2023	11/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	96	98	97	97	99
Surrogate $^{13}C_2$ *PFOA*	%	99	100	97	99	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	107	103	103	102	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	112	108	110	116	103
Extracted ISTD $^{13}C_4$ *PFOA*	%	112	111	118	125	111
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	112	111	110	128	108
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	112	116	114	138	116
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-93	330992-94	330992-109	330992-110	330992-111
Your Reference	UNITS	315	315	319	319	319
Depth		5.8-6	6.3-6.5	0.25-0.35	0.5-0.7	1.1-1.3
Date Sampled		11/08/2023	11/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	0.9	0.9	0.5
6:2 FTS	µg/kg	<0.1	<0.1	0.4	5.2	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	98	95	102	103	99
Surrogate $^{13}C_2$ *PFOA*	%	97	98	95	99	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	97	98	100	102	101
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	100	103	104	103
Extracted ISTD $^{13}C_4$ *PFOA*	%	105	104	114	113	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	103	105	121	101	99
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	106	100	143	113	107
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	0.9	0.9	0.5
Total Positive PFAS	µg/kg	<0.1	<0.1	3.0	6.1	0.5

PFAS in Soils Short						
Our Reference		330992-112	330992-114	330992-116	330992-117	330992-119
Your Reference	UNITS	319	319	319	319	319
Depth		1.4-1.6	2.8-3	4.8-5	5.8-6	7.8-8
Date Sampled		10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	0.3	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	101	99	97	98	98
Surrogate $^{13}C_2$ *PFOA*	%	100	95	97	98	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	104	103	99	93	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	106	106	102	97	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	110	112	106	104	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	110	113	102	104	108
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	104	111	103	109	103
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	0.3	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	0.3	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	0.3	<0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-128	330992-130	330992-131	330992-133	330992-134
Your Reference	UNITS	321	321	321	321	321
Depth		0.2-0.4	1-1.2	2-2.2	4-4.2	5-5.2
Date Sampled		15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2	0.1	0.2	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	99	96	98	99	96
Surrogate $^{13}C_2$ *PFOA*	%	98	97	97	97	95
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98	104	104	106	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	111	107	107	109
Extracted ISTD $^{13}C_4$ *PFOA*	%	111	115	115	112	110
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	114	120	117	112	110
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	153	130	127	120	110
Total Positive PFHxS & PFOS	µg/kg	0.2	0.1	0.2	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	0.2	0.1	0.2	<0.1	<0.1
Total Positive PFAS	µg/kg	0.2	0.1	0.2	<0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-135	330992-136	330992-163	330992-164	330992-166
Your Reference	UNITS	321	321	322C	322C	322C
Depth		6-6.2	7-7.2	0.2-0.4	0.6-0.8	1.5-1.7
Date Sampled		15/08/2023	15/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	0.2	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	97	101	96	98	96
Surrogate $^{13}C_2$ *PFOA*	%	95	98	97	97	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	104	93	105	102	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	106	96	107	105	110
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	105	111	108	113
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	107	111	112	110	110
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	109	113	117	110	115
Total Positive PFHxS & PFOS	µg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	0.4	<0.1	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		330992-168	330992-170	330992-171	330992-173	330992-215
Your Reference	UNITS	322C	322C	322C	322C	329B
Depth		3.3-3.5	4.8-5	5.8-6	7.8-8	0.1-0.2
Date Sampled		16/08/2023	16/08/2023	16/08/2023	16/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	0.2	<0.1	0.2
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	0.2	0.4	<0.1	3.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	0.3
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	2.5
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	0.5
Surrogate $^{13}C_8$ *PFOS*	%	101	97	97	98	97
Surrogate $^{13}C_2$ *PFOA*	%	97	100	98	97	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	105	107	98	97	103
Extracted ISTD $^{13}C_4$ *PFOS*	%	104	111	99	98	104
Extracted ISTD $^{13}C_4$ *PFOA*	%	110	113	101	105	123
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	110	110	103	106	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	110	119	104	113	#
Total Positive PFHxS & PFOS	µg/kg	<0.1	0.2	0.6	<0.1	3.3
Total Positive PFOS & PFOA	µg/kg	<0.1	0.2	0.4	<0.1	3.4
Total Positive PFAS	µg/kg	<0.1	0.2	0.6	<0.1	6.6

PFAS in Soils Short						
Our Reference		330992-218	330992-220	330992-221	330992-222	330992-224
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		1.5-1.6	2.5-2.7	3.5-3.7	4.3-4.5	5.2-5.4
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.3	0.7	0.2	0.3	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	8.0	<0.1	<0.1	0.8	0.2
Perfluorooctanoic acid PFOA	µg/kg	0.5	0.8	0.4	0.3	<0.1
6:2 FTS	µg/kg	0.6	0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	97	102	97	98	100
Surrogate $^{13}C_2$ *PFOA*	%	99	98	99	101	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102	103	106	103	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	108	105	106	107	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	124	123	109	108	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	167	162	106	119	106
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	#	119	130	102
Total Positive PFHxS & PFOS	µg/kg	8.3	0.7	0.2	1.1	0.2
Total Positive PFOS & PFOA	µg/kg	8.5	0.8	0.4	1.1	0.2
Total Positive PFAS	µg/kg	9.7	1.6	0.6	1.4	0.2

PFAS in Soils Short					
Our Reference		330992-226	330992-259	330992-261	330992-263
Your Reference	UNITS	329B	330	330	330
Depth		6.8-7	0.1-0.3	1-1.2	2-2.2
Date Sampled		14/08/2023	15/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	0.2	1.6	1.5
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	2.5	13	16
Perfluorooctanoic acid PFOA	µg/kg	<0.1	0.6	0.7	0.6
6:2 FTS	µg/kg	<0.1	4.4	0.1	0.2
8:2 FTS	µg/kg	<0.2	1	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	98	97	101	94
Surrogate $^{13}C_2$ *PFOA*	%	103	102	100	106
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95	98	100	100
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	105	100	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	102	127	128	126
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	104	#	#	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	111	#	#	#
Total Positive PFHxS & PFOS	µg/kg	<0.1	2.7	14	17
Total Positive PFOS & PFOA	µg/kg	<0.1	3.1	13	16
Total Positive PFAS	µg/kg	<0.1	8.8	15	18

Asbestos ID - materials			
Our Reference	UNITS	330992-276	330992-277
Your Reference		329/PACM1	329C/PACM2
Depth		Surface	1
Date Sampled		14/08/2023	15/08/2023
Type of sample		Material	Material
Date analysed	-	23/08/2023	23/08/2023
Mass / Dimension of Sample	-	70x40x5mm	45x35x6mm
Sample Description	-	Grey fibre cement material	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected
Trace Analysis	-	[NT]	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-20
Date Extracted	-			22/08/2023	18	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date Analysed	-			25/08/2023	18	25/08/2023	25/08/2023		28/08/2023	25/08/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	102	105
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	18	<1	<1	0	112	113
2,2-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	96	97
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	90	93
1,1-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	18	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	96	97
bromodichloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	84	86
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	18	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	80	77
1,2-dibromoethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	97	96
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	18	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-20
o-Xylene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	108	18	96	95	1	105	96
Surrogate aaa-Trifluorotoluene	%		Org-023	90	18	100	99	1	99	85
Surrogate Toluene-d_8	%		Org-023	104	18	95	94	1	103	97
Surrogate 4-Bromofluorobenzene	%		Org-023	99	18	105	103	2	102	101

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-90
Date Extracted	-			[NT]	39	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date Analysed	-			[NT]	39	28/08/2023	28/08/2023		25/08/2023	25/08/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	119	130
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	39	<1	<1	0	129	134
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	105	114
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	109	119
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	114	124
bromodichloromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	108	117
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	39	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	104	110
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	109	116
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	39	13	14	7	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	39	60	63	5	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-90
o-Xylene	mg/kg	1	Org-023	[NT]	39	13	14	7	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	39	2	2	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	39	4	4	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	39	33	34	3	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	39	52	53	2	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	39	6	7	15	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	39	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	39	98	98	0	95	93
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	39	86	89	3	103	106
Surrogate Toluene-d_8	%		Org-023	[NT]	39	99	99	0	101	97
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	39	102	101	1	103	107

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-117
Date Extracted	-			[NT]	48	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date Analysed	-			[NT]	48	28/08/2023	28/08/2023		25/08/2023	28/08/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	123	120
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	48	<1	<1	0	132	128
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	107	104
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	112	111
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	117	119
bromodichloromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	110	110
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	48	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	104	108
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	110	114
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	48	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-117
o-Xylene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	48	96	97	1	95	93
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	48	89	83	7	106	104
Surrogate Toluene-d_8	%		Org-023	[NT]	48	99	99	0	98	102
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	48	97	97	0	104	107

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	[NT]
Date Extracted	-			[NT]	94	22/08/2023	22/08/2023		22/08/2023	[NT]
Date Analysed	-			[NT]	94	28/08/2023	28/08/2023		28/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	123	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	94	<1	<1	0	133	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	106	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	113	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	94	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	118	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	110	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	94	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	103	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	107	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	94	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	94	99	99	0	96	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	94	92	97	5	104	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	94	96	96	0	97	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	94	110	109	1	106	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	[NT]
Date Extracted	-			[NT]	138	22/08/2023	22/08/2023		22/08/2023	[NT]
Date Analysed	-			[NT]	138	28/08/2023	28/08/2023		28/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	105	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	138	<1	<1	0	111	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	90	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	95	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	138	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	103	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	95	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	138	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	95	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	102	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	138	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	138	110	110	0	96	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	138	110	106	4	97	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	138	126	124	2	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	138	101	100	1	101	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date Extracted	-			[NT]	156	22/08/2023	22/08/2023		22/08/2023	[NT]
Date Analysed	-			[NT]	156	28/08/2023	28/08/2023		28/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	116	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	156	<1	<1	0	122	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	105	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	106	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	156	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	111	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	102	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	156	2	2	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	95	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	103	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	156	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	156	104	105	1	102	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	156	85	92	8	97	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	156	109	108	1	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	156	97	97	0	99	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	[NT]
Date Extracted	-			[NT]	263	22/08/2023	22/08/2023		22/08/2023	[NT]
Date Analysed	-			[NT]	263	28/08/2023	28/08/2023		28/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	129	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	263	<1	<1	0	140	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	116	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	112	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	263	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	122	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	102	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	263	1	<0.5	67	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	95	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	118	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	263	<2	<2	0	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	263	102	103	1	109	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	263	96	95	1	121	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	263	102	102	0	123	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	263	98	98	0	106	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-21	[NT]
Date Extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date Analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	28/08/2023	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	106	[NT]
chloroform	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	117	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	94	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	87	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	84	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	108	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-22	[NT]
Date Extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date Analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	28/08/2023	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	104	[NT]
chloroform	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	93	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	87	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	84	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-20
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			25/08/2023	2	25/08/2023	25/08/2023		25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	2	<25	<25	0	98	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	2	<25	<25	0	98	103
Benzene	mg/kg	0.2	Org-023	<0.2	2	<0.2	<0.2	0	95	104
Toluene	mg/kg	0.5	Org-023	<0.5	2	<0.5	<0.5	0	98	98
Ethylbenzene	mg/kg	1	Org-023	<1	2	<1	<1	0	95	110
m+p-xylene	mg/kg	2	Org-023	<2	2	<2	<2	0	102	102
o-Xylene	mg/kg	1	Org-023	<1	2	<1	<1	0	100	101
Naphthalene	mg/kg	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	90	2	103	96	7	99	85

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-21
Date extracted	-			[NT]	18	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	18	25/08/2023	25/08/2023		25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	18	<25	<25	0	112	120
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	18	<25	<25	0	112	120
Benzene	mg/kg	0.2	Org-023	[NT]	18	<0.2	<0.2	0	112	119
Toluene	mg/kg	0.5	Org-023	[NT]	18	<0.5	<0.5	0	109	116
Ethylbenzene	mg/kg	1	Org-023	[NT]	18	<1	<1	0	119	128
m+p-xylene	mg/kg	2	Org-023	[NT]	18	<2	<2	0	110	118
o-Xylene	mg/kg	1	Org-023	[NT]	18	<1	<1	0	109	116
Naphthalene	mg/kg	1	Org-023	[NT]	18	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	18	100	99	1	102	98

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-62
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	25/08/2023	25/08/2023		25/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	30	<25	<25	0	113	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	30	<25	<25	0	113	103
Benzene	mg/kg	0.2	Org-023	[NT]	30	<0.2	<0.2	0	116	105
Toluene	mg/kg	0.5	Org-023	[NT]	30	2	2	0	113	102
Ethylbenzene	mg/kg	1	Org-023	[NT]	30	1	<1	0	114	105
m+p-xylene	mg/kg	2	Org-023	[NT]	30	2	<2	0	110	101
o-Xylene	mg/kg	1	Org-023	[NT]	30	<1	<1	0	114	104
Naphthalene	mg/kg	1	Org-023	[NT]	30	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	30	98	97	1	103	82

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-81
Date extracted	-			[NT]	39	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	39	28/08/2023	28/08/2023		25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	39	160	230	36	115	115
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	39	1000	1200	18	115	115
Benzene	mg/kg	0.2	Org-023	[NT]	39	<0.2	<0.2	0	120	120
Toluene	mg/kg	0.5	Org-023	[NT]	39	<0.5	<0.5	0	114	115
Ethylbenzene	mg/kg	1	Org-023	[NT]	39	13	14	7	117	116
m+p-xylene	mg/kg	2	Org-023	[NT]	39	60	63	5	113	111
o-Xylene	mg/kg	1	Org-023	[NT]	39	13	14	7	118	114
Naphthalene	mg/kg	1	Org-023	[NT]	39	2	2	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	39	86	89	3	106	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-90
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		25/08/2023	25/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	42	<25	<25	0	106	124
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	42	<25	<25	0	106	124
Benzene	mg/kg	0.2	Org-023	[NT]	42	<0.2	<0.2	0	108	127
Toluene	mg/kg	0.5	Org-023	[NT]	42	<0.5	<0.5	0	101	118
Ethylbenzene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	108	129
m+p-xylene	mg/kg	2	Org-023	[NT]	42	<2	<2	0	105	123
o-Xylene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	109	127
Naphthalene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	42	88	86	2	94	106

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	330992-109
Date extracted	-			[NT]	48	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	48	28/08/2023	28/08/2023		28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	48	<25	<25	0	99	121
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	48	<25	<25	0	99	121
Benzene	mg/kg	0.2	Org-023	[NT]	48	<0.2	<0.2	0	102	126
Toluene	mg/kg	0.5	Org-023	[NT]	48	<0.5	<0.5	0	103	119
Ethylbenzene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	99	124
m+p-xylene	mg/kg	2	Org-023	[NT]	48	<2	<2	0	95	117
o-Xylene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	98	127
Naphthalene	mg/kg	1	Org-023	[NT]	48	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	48	89	83	7	97	89

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	330992-117
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	60	<25	<25	0	106	119
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	60	<25	<25	0	106	119
Benzene	mg/kg	0.2	Org-023	[NT]	60	<0.2	<0.2	0	112	119
Toluene	mg/kg	0.5	Org-023	[NT]	60	<0.5	<0.5	0	107	116
Ethylbenzene	mg/kg	1	Org-023	[NT]	60	<1	<1	0	105	122
m+p-xylene	mg/kg	2	Org-023	[NT]	60	<2	<2	0	102	118
o-Xylene	mg/kg	1	Org-023	[NT]	60	<1	<1	0	104	124
Naphthalene	mg/kg	1	Org-023	[NT]	60	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	60	93	83	11	88	104

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	330992-130
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	25/08/2023	25/08/2023		28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	86	<25	<25	0	104	116
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	86	<25	<25	0	104	116
Benzene	mg/kg	0.2	Org-023	[NT]	86	<0.2	<0.2	0	123	124
Toluene	mg/kg	0.5	Org-023	[NT]	86	<0.5	<0.5	0	125	118
Ethylbenzene	mg/kg	1	Org-023	[NT]	86	<1	<1	0	86	120
m+p-xylene	mg/kg	2	Org-023	[NT]	86	<2	<2	0	93	108
o-Xylene	mg/kg	1	Org-023	[NT]	86	<1	<1	0	90	119
Naphthalene	mg/kg	1	Org-023	[NT]	86	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	86	108	105	3	121	105

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-21	330992-144
Date extracted	-			[NT]	94	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	94	28/08/2023	28/08/2023		28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	94	<25	<25	0	97	85
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	94	<25	<25	0	97	85
Benzene	mg/kg	0.2	Org-023	[NT]	94	<0.2	<0.2	0	100	95
Toluene	mg/kg	0.5	Org-023	[NT]	94	<0.5	<0.5	0	102	94
Ethylbenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	89	74
m+p-xylene	mg/kg	2	Org-023	[NT]	94	<2	<2	0	97	82
o-Xylene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	95	79
Naphthalene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	94	92	97	5	97	90

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-22	330992-175
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	99	<25	<25	0	101	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	99	<25	<25	0	101	103
Benzene	mg/kg	0.2	Org-023	[NT]	99	<0.2	<0.2	0	99	101
Toluene	mg/kg	0.5	Org-023	[NT]	99	<0.5	<0.5	0	101	102
Ethylbenzene	mg/kg	1	Org-023	[NT]	99	<1	<1	0	96	98
m+p-xylene	mg/kg	2	Org-023	[NT]	99	<2	<2	0	104	107
o-Xylene	mg/kg	1	Org-023	[NT]	99	<1	<1	0	102	105
Naphthalene	mg/kg	1	Org-023	[NT]	99	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	99	100	91	9	93	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-194
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		[NT]	22/08/2023
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		[NT]	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	120	<25	<25	0	[NT]	95
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	120	<25	<25	0	[NT]	95
Benzene	mg/kg	0.2	Org-023	[NT]	120	<0.2	<0.2	0	[NT]	89
Toluene	mg/kg	0.5	Org-023	[NT]	120	<0.5	<0.5	0	[NT]	91
Ethylbenzene	mg/kg	1	Org-023	[NT]	120	<1	<1	0	[NT]	98
m+p-xylene	mg/kg	2	Org-023	[NT]	120	<2	<2	0	[NT]	98
o-Xylene	mg/kg	1	Org-023	[NT]	120	<1	<1	0	[NT]	93
Naphthalene	mg/kg	1	Org-023	[NT]	120	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	120	101	106	5	[NT]	86

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-231
Date extracted	-			[NT]	138	22/08/2023	22/08/2023		[NT]	22/08/2023
Date analysed	-			[NT]	138	28/08/2023	28/08/2023		[NT]	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	138	<25	<25	0	[NT]	102
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	138	<25	<25	0	[NT]	102
Benzene	mg/kg	0.2	Org-023	[NT]	138	<0.2	<0.2	0	[NT]	102
Toluene	mg/kg	0.5	Org-023	[NT]	138	<0.5	<0.5	0	[NT]	101
Ethylbenzene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	89
m+p-xylene	mg/kg	2	Org-023	[NT]	138	<2	<2	0	[NT]	108
o-Xylene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	108
Naphthalene	mg/kg	1	Org-023	[NT]	138	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	138	110	106	4	[NT]	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-266
Date extracted	-			[NT]	141	22/08/2023	22/08/2023		[NT]	22/08/2023
Date analysed	-			[NT]	141	28/08/2023	28/08/2023		[NT]	28/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	141	<25	<25	0	[NT]	113
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	141	<25	<25	0	[NT]	113
Benzene	mg/kg	0.2	Org-023	[NT]	141	<0.2	<0.2	0	[NT]	107
Toluene	mg/kg	0.5	Org-023	[NT]	141	<0.5	<0.5	0	[NT]	104
Ethylbenzene	mg/kg	1	Org-023	[NT]	141	<1	<1	0	[NT]	114
m+p-xylene	mg/kg	2	Org-023	[NT]	141	<2	<2	0	[NT]	120
o-Xylene	mg/kg	1	Org-023	[NT]	141	<1	<1	0	[NT]	118
Naphthalene	mg/kg	1	Org-023	[NT]	141	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	141	108	101	7	[NT]	88

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	156	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	156	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	156	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	156	2	2	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	156	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	156	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	156	85	92	8	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	164	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	164	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	164	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	164	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	164	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	164	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	164	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	164	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	164	93	92	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	182	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	182	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	182	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	182	1	2	67	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	182	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	182	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	182	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	182	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	182	92	92	0	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	190	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	190	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	190	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	190	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	190	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	190	<0.5	0.9	57	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	190	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	190	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	190	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	190	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	190	94	101	7	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	203	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	203	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	203	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	203	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	203	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	203	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	203	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	203	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	203	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	203	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	203	86	88	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	218	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	218	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	218	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	218	1	1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	218	2	2	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	218	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	218	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	218	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	218	89	97	9	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	242	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	242	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	242	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	242	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	242	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	242	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	242	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	242	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	242	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	242	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	242	92	93	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	245	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	245	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	245	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	245	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	245	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	245	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	245	2	<1	67	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	245	3	<2	40	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	245	2	<1	67	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	245	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	245	96	95	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	259	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	259	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	259	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	259	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	259	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	259	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	259	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	259	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	259	90	97	7	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	263	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	263	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	263	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	263	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	263	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	263	1	<0.5	67	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	263	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	263	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	263	96	95	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	270	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	270	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	270	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	270	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	270	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	270	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	270	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	270	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	270	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	270	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	270	97	88	10	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			24/08/2023	2	24/08/2023	24/08/2023		24/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	2	<50	<50	0	107	106
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	2	<100	<100	0	91	94
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	2	<100	<100	0	86	96
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	2	<50	<50	0	107	106
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	2	<100	<100	0	91	94
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	2	<100	<100	0	86	96
Surrogate o-Terphenyl	%		Org-020	84	2	84	85	1	91	81

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date extracted	-			[NT]	18	22/08/2023	25/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	18	24/08/2023	26/08/2023		25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	18	<50	<50	0	112	111
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	18	<100	<100	0	95	97
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	18	<100	<100	0	100	93
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	18	<50	<50	0	112	111
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	18	<100	<100	0	95	97
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	18	<100	<100	0	100	93
Surrogate o-Terphenyl	%		Org-020	[NT]	18	89	85	5	91	113

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-81
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	24/08/2023	24/08/2023		25/08/2023	24/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	30	140	170	19	116	96
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	30	<100	<100	0	96	83
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	30	<100	<100	0	100	84
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	30	87	110	23	116	96
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	30	<100	<100	0	96	83
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	30	<100	<100	0	100	84
Surrogate o-Terphenyl	%		Org-020	[NT]	30	80	85	6	92	82

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-109
Date extracted	-			[NT]	39	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	39	25/08/2023	25/08/2023		24/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	39	2200	2000	10	99	98
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	39	<100	<100	0	83	90
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	39	<100	<100	0	86	98
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	39	1300	1200	8	99	98
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	39	<100	<100	0	83	90
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	39	<100	<100	0	86	98
Surrogate o-Terphenyl	%		Org-020	[NT]	39	80	83	4	84	78

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-130
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	25/08/2023	25/08/2023		25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	103	106
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	91	90
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	86	119
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	103	106
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	91	90
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	86	119
Surrogate o-Terphenyl	%		Org-020	[NT]	42	82	80	2	88	88

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	330992-144
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	25/08/2023	25/08/2023		25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	60	<50	<50	0	104	101
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	60	<100	<100	0	91	87
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	60	<100	<100	0	86	87
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	60	<50	<50	0	104	101
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	60	<100	<100	0	91	87
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	60	<100	<100	0	86	87
Surrogate o-Terphenyl	%		Org-020	[NT]	60	83	82	1	84	82

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	330992-175
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	24/08/2023	24/08/2023		24/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	86	<50	<50	0	72	110
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	86	<100	<100	0	73	106
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	86	<100	<100	0	100	101
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	86	<50	<50	0	72	110
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	86	<100	<100	0	73	106
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	86	<100	<100	0	100	101
Surrogate o-Terphenyl	%		Org-020	[NT]	86	80	79	1	118	86

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	330992-194
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	99	24/08/2023	24/08/2023		25/08/2023	25/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	99	<50	<50	0	105	105
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	99	<100	<100	0	100	91
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	99	<100	<100	0	100	95
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	99	<50	<50	0	105	105
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	99	<100	<100	0	100	91
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	99	<100	<100	0	100	95
Surrogate o-Terphenyl	%		Org-020	[NT]	99	77	77	0	75	86

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-21	330992-231
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	120	25/08/2023	25/08/2023		28/08/2023	28/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	120	<50	<50	0	99	94
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	120	<100	<100	0	93	95
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	120	<100	<100	0	100	100
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	120	<50	<50	0	99	94
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	120	<100	<100	0	93	95
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	120	<100	<100	0	100	100
Surrogate o-Terphenyl	%		Org-020	[NT]	120	79	80	1	111	77

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-22	330992-266
Date extracted	-			[NT]	138	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	138	25/08/2023	25/08/2023		28/08/2023	26/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	138	<50	<50	0	93	93
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	138	<100	<100	0	91	77
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	138	<100	<100	0	86	86
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	138	<50	<50	0	93	93
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	138	<100	<100	0	91	77
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	138	<100	<100	0	86	86
Surrogate o-Terphenyl	%		Org-020	[NT]	138	86	85	1	111	82

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	141	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	141	25/08/2023	25/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	141	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	141	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	141	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	141	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	141	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	141	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	141	84	85	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	24/08/2023	24/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	156	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	156	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	156	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	156	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	156	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	156	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	156	88	89	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	25/08/2023	25/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	164	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	164	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	164	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	164	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	164	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	164	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	164	87	87	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	25/08/2023	25/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	182	89	130	37	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	182	1300	910	35	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	182	1000	620	47	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	182	100	140	33	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	182	2200	1400	44	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	182	320	250	25	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	182	98	100	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	190	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	190	25/08/2023	25/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	190	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	190	400	410	2	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	190	200	210	5	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	190	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	190	550	570	4	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	190	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	190	87	89	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	203	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	203	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	203	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	203	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	203	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	203	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	203	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	203	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	203	73	75	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	218	<50	73	37	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	218	100	200	67	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	218	<100	130	26	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	218	<50	51	2	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	218	150	290	64	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	218	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	218	92	107	15	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	242	22/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	242	28/08/2023	26/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	242	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	242	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	242	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	242	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	242	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	242	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	242	86	84	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	245	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	245	26/08/2023	26/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	245	<50	55	10	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	245	390	860	75	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	245	460	1100	82	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	245	<50	63	23	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	245	740	1700	79	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	245	300	820	93	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	245	91	106	15	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	26/08/2023	26/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	259	120	160	29	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	259	360	510	34	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	259	330	390	17	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	259	81	130	46	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	259	590	770	26	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	259	170	210	21	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	259	92	120	26	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	263	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	263	26/08/2023	26/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	263	180	110	48	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	263	2500	640	118	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	263	250	160	44	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	263	200	120	50	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	263	2700	750	113	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	263	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	263	87	91	4	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	270	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	270	26/08/2023	26/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	270	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	270	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	270	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	270	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	270	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	270	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	270	82	80	2	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date extracted	-			22/08/2023	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date analysed	-			26/08/2023	[NT]	[NT]	[NT]	[NT]	26/08/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	73	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	79	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	73	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	79	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	71	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			28/08/2023	2	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	107	112
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	111	117
Fluorene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	105	109
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	108	115
Anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	106	111
Pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	113	121
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	99	99
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	2	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	2	<0.05	<0.05	0	90	96
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	98	2	112	109	3	90	95

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	30	1.3	1.6	21	113	107
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	114	113
Fluorene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	111	105
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	112	110
Anthracene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	111	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	116	115
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	97	97
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	30	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	30	<0.05	<0.05	0	106	110
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	30	105	106	1	89	95

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-81
Date extracted	-			[NT]	39	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	39	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	39	1.7	1.6	6	111	115
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	115	117
Fluorene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	107	114
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	112	115
Anthracene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	112	113
Pyrene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	119	122
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	101	102
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	39	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	39	<0.05	<0.05	0	102	121
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	39	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	39	102	108	6	92	93

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-109
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	110	105
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	113	113
Fluorene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	109	105
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	110	111
Anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	107	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	117	117
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	95	97
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	42	<0.05	<0.05	0	122	122
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	42	106	109	3	86	92

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-130
Date extracted	-			[NT]	48	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	48	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	115	97
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	117	99
Fluorene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	116	95
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	115	102
Anthracene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	113	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	126	111
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	103	103
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	48	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	48	<0.05	<0.05	0	125	98
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	48	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	48	109	118	8	89	104

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	330992-144
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	113	92
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	117	93
Fluorene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	113	88
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	114	94
Anthracene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	112	92
Pyrene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	125	95
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	103	97
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	60	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	60	<0.05	<0.05	0	120	74
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	60	107	108	1	90	97

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	330992-175
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	133	96
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	127	115
Fluorene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	125	122
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	130	104
Anthracene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	130	120
Pyrene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	133	117
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	128	109
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	86	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	86	<0.05	<0.05	0	118	128
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	86	112	113	1	123	99

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	330992-194
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	120	118
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	124	105
Fluorene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	118	101
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	114	111
Anthracene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	117	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	115	111
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	119	105
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	99	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	99	<0.05	<0.05	0	123	104
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	99	110	110	0	110	113

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-21	330992-231
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	120	0.1	<0.1	0	109	113
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	111	119
Fluorene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	105	113
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	112	115
Anthracene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	112	111
Pyrene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	113	124
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	115	94
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	120	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	120	<0.05	<0.05	0	96	113
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	120	110	113	3	112	92

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-22	330992-266
Date extracted	-			[NT]	138	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	138	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	138	0.5	1	67	101	97
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	103	99
Fluorene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	97	93
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	138	0.1	<0.1	0	102	100
Anthracene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	138	0.1	<0.1	0	102	100
Pyrene	mg/kg	0.1	Org-022/025	[NT]	138	0.1	<0.1	0	105	103
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	107	99
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	138	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	138	0.07	<0.05	33	92	100
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	138	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	138	110	113	3	102	102

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	141	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	141	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	141	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	141	<0.05	0.06	18	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	141	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	141	114	97	16	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	156	0.2	1.4	150	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	156	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	156	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	156	117	120	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	164	0.2	0.2	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	164	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	164	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	164	118	119	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	182	0.3	0.1	100	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	182	0.5	0.4	22	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	182	0.3	0.2	40	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	182	0.3	0.3	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	182	0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	182	0.3	0.3	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	182	98	97	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	190	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	190	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	190	0.4	0.4	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	190	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	190	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	190	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	190	0.2	0.1	67	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	190	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	190	0.2	0.2	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	190	0.2	0.2	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	190	0.1	0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	190	0.2	0.2	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	190	0.3	0.3	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	190	0.1	0.2	67	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	190	0.1	0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	190	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	190	0.1	0.2	67	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	190	124	118	5	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	203	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	203	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	203	1.2	<0.1	169	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	203	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	203	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	203	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	203	0.3	<0.1	100	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	203	0.2	<0.1	67	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	203	0.3	<0.1	100	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	203	0.4	<0.1	120	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	203	0.2	<0.1	67	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	203	0.2	<0.1	67	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	203	0.4	<0.2	67	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	203	0.3	<0.05	143	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	203	0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	203	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	203	0.2	<0.1	67	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	203	97	92	5	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	218	0.2	0.4	67	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	218	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	218	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	218	107	105	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	242	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	242	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	242	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	242	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	242	112	108	4	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	245	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	245	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	0.2	67	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	0.2	67	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	245	0.2	0.6	100	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	245	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	245	<0.05	0.1	67	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	245	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	245	0.1	0.2	67	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	245	110	109	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	259	0.3	0.3	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	259	0.2	0.1	67	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	259	0.2	0.2	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	259	0.3	0.2	40	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	259	0.2	<0.1	67	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	259	0.2	0.1	67	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	259	0.3	<0.2	40	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	259	0.2	0.2	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	259	0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	259	0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	259	96	94	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	263	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	263	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	263	0.6	0.7	15	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	263	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	263	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	263	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	263	0.2	0.3	40	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	263	0.1	0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	263	0.3	0.3	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	263	0.4	0.4	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	263	0.2	0.2	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	263	0.2	0.2	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	263	0.3	0.3	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	263	0.3	0.2	40	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	263	0.1	0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	263	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	263	0.1	0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	263	96	86	11	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	270	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	270	28/08/2023	28/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	270	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	270	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	270	108	115	6	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			28/08/2023	2	28/08/2023	28/08/2023		28/08/2023	28/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	104	106
HCB	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	98	97
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	105	115
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	95	99
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	90	96
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	119	125
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	110	121
Endrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	84	100
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	137	120
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	95
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	96	2	137	135	1	118	123

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	28/08/2023	28/08/2023		28/08/2023	28/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	101	100
HCB	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	97	90
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	104	107
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	94	95
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	91	90
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	117	119
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	114	116
Endrin	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	85	88
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	119	116
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	81	87
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	30	126	126	0	116	122

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-109
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		28/08/2023	28/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	102	102
HCB	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	96	93
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	107	111
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	97	99
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	90	96
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	121	107
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	116	120
Endrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	84	98
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	112	133
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	78	97
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	42	130	130	0	119	117

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-175
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	103	118
HCB	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	98	108
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	107	119
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	100	120
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	98	120
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	120	131
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	125	126
Endrin	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	95	127
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	125	118
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	100	131
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	60	129	129	0	113	127

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-231
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	28/08/2023	28/08/2023		28/08/2023	28/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	100	102
HCB	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	100	100
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	108	109
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	112	113
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	110	110
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	125	128
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	125	128
Endrin	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	110	105
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	127	123
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	98	101
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	86	68	136	67	111	117

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	[NT]
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	[NT]
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	100	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	98	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	105	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	111	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	108	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	127	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	124	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	102	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	127	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	101	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	99	131	130	1	113	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	120	133	137	3	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	156	128	124	3	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	164	121	126	4	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	182	0.2	0.2	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	182	0.1	0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	182	32	29	10	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	182	25	25	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	182	14	14	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	182	135	136	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	218	0.2	0.2	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	218	3.2	3.1	3	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	218	127	126	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	259	1.2	1.2	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	259	3.3	3.3	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	259	1.8	1.4	25	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	259	122	120	2	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			28/08/2023	2	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	107	115
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	106	112
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	101	111
Malathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	89	103
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	98	102
Fenthion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	91	101
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	80	99
Phosalone	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	96	2	137	135	1	118	123

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	129	115
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	106	106
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	102	105
Malathion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	95	97
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	100	98
Fenthion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	97	97
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	87	92
Phosalone	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	30	126	126	0	116	122

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-109
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	109	129
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	104	106
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	101	113
Malathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	91	108
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	98	102
Fenthion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	93	99
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	84	107
Phosalone	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	42	130	130	0	119	117

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-175
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	125	119
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	110	124
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	127	134
Malathion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	122	132
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	105	121
Fenthion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	117	123
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	115	131
Phosalone	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	60	129	129	0	113	127

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-231
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	131	121
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	111	110
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	138	134
Malathion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	132	130
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	112	112
Fenthion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	139	109
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	130	126
Phosalone	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	86	68	136	67	111	117

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	[NT]
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	[NT]
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	131	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	108	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	130	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	130	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	110	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	121	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	123	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	99	131	130	1	113	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	120	133	137	3	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	156	128	124	3	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	164	121	126	4	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	182	135	136	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	218	127	126	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	259	122	120	2	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date extracted	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			28/08/2023	2	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	104	100
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	96	2	137	135	1	118	123

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date extracted	-			[NT]	30	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	30	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	101	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	30	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	30	126	126	0	116	122

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-109
Date extracted	-			[NT]	42	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	103	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	42	130	130	0	119	117

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-175
Date extracted	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	101	120
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	60	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	60	129	129	0	113	127

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-231
Date extracted	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	104	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	86	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	86	68	136	67	111	117

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	[NT]
Date extracted	-			[NT]	99	22/08/2023	22/08/2023		22/08/2023	[NT]
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	103	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	99	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	99	131	130	1	113	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	120	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	120	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	120	133	137	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	156	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	156	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	156	128	124	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	164	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	164	121	126	4	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	182	135	136	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	218	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	218	127	126	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	259	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	259	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	259	122	120	2	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	330992-21
Date prepared	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			22/08/2023	2	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	2	<5	<5	0	102	102

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	330992-109
Date prepared	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	60	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	60	<5	<5	0	101	101

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	330992-231
Date prepared	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Date analysed	-			[NT]	86	22/08/2023	22/08/2023		22/08/2023	22/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	86	<5	<5	0	102	101

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	99	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	99	22/08/2023	22/08/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	99	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	120	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	120	22/08/2023	22/08/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	120	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	22/08/2023	22/08/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	218	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	330992-21
Date prepared	-			25/08/2023	2	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			28/08/2023	2	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	<4	2	<4	<4	0	94	97
Cadmium	mg/kg	0.4	Metals-020	<0.4	2	<0.4	<0.4	0	95	95
Chromium	mg/kg	1	Metals-020	<1	2	2	2	0	98	94
Copper	mg/kg	1	Metals-020	<1	2	<1	<1	0	101	102
Lead	mg/kg	1	Metals-020	<1	2	2	2	0	97	92
Mercury	mg/kg	0.1	Metals-021	<0.1	2	<0.1	<0.1	0	91	90
Nickel	mg/kg	1	Metals-020	<1	2	1	1	0	96	93
Zinc	mg/kg	1	Metals-020	<1	2	<1	<1	0	102	96

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	330992-62
Date prepared	-			[NT]	30	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	30	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	30	<4	<4	0	95	100
Cadmium	mg/kg	0.4	Metals-020	[NT]	30	<0.4	<0.4	0	99	99
Chromium	mg/kg	1	Metals-020	[NT]	30	9	9	0	101	98
Copper	mg/kg	1	Metals-020	[NT]	30	110	110	0	99	105
Lead	mg/kg	1	Metals-020	[NT]	30	6	7	15	101	96
Mercury	mg/kg	0.1	Metals-021	[NT]	30	<0.1	<0.1	0	92	105
Nickel	mg/kg	1	Metals-020	[NT]	30	19	21	10	98	97
Zinc	mg/kg	1	Metals-020	[NT]	30	16	19	17	107	100

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	330992-81
Date prepared	-			[NT]	39	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	39	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	39	<4	<4	0	104	91
Cadmium	mg/kg	0.4	Metals-020	[NT]	39	<0.4	<0.4	0	97	93
Chromium	mg/kg	1	Metals-020	[NT]	39	1	1	0	109	90
Copper	mg/kg	1	Metals-020	[NT]	39	<1	<1	0	104	91
Lead	mg/kg	1	Metals-020	[NT]	39	<1	<1	0	109	90
Mercury	mg/kg	0.1	Metals-021	[NT]	39	<0.1	<0.1	0	97	98
Nickel	mg/kg	1	Metals-020	[NT]	39	<1	<1	0	101	89
Zinc	mg/kg	1	Metals-020	[NT]	39	1	1	0	106	99

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-16	330992-109
Date prepared	-			[NT]	42	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	42	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	42	<4	<4	0	106	109
Cadmium	mg/kg	0.4	Metals-020	[NT]	42	<0.4	<0.4	0	98	94
Chromium	mg/kg	1	Metals-020	[NT]	42	1	1	0	106	#
Copper	mg/kg	1	Metals-020	[NT]	42	6	7	15	105	#
Lead	mg/kg	1	Metals-020	[NT]	42	3	3	0	106	#
Mercury	mg/kg	0.1	Metals-021	[NT]	42	<0.1	<0.1	0	101	#
Nickel	mg/kg	1	Metals-020	[NT]	42	2	2	0	103	120
Zinc	mg/kg	1	Metals-020	[NT]	42	5	4	22	105	112

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-17	330992-130
Date prepared	-			[NT]	60	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	60	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	60	<4	<4	0	110	111
Cadmium	mg/kg	0.4	Metals-020	[NT]	60	<0.4	<0.4	0	102	91
Chromium	mg/kg	1	Metals-020	[NT]	60	32	2	176	111	98
Copper	mg/kg	1	Metals-020	[NT]	60	20	15	29	111	101
Lead	mg/kg	1	Metals-020	[NT]	60	6	4	40	110	96
Mercury	mg/kg	0.1	Metals-021	[NT]	60	<0.1	<0.1	0	116	72
Nickel	mg/kg	1	Metals-020	[NT]	60	34	4	158	108	93
Zinc	mg/kg	1	Metals-020	[NT]	60	40	27	39	109	#

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-18	330992-144
Date prepared	-			[NT]	86	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	86	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	86	<4	<4	0	110	119
Cadmium	mg/kg	0.4	Metals-020	[NT]	86	<0.4	<0.4	0	100	110
Chromium	mg/kg	1	Metals-020	[NT]	86	2	2	0	113	112
Copper	mg/kg	1	Metals-020	[NT]	86	<1	<1	0	111	114
Lead	mg/kg	1	Metals-020	[NT]	86	2	1	67	117	112
Mercury	mg/kg	0.1	Metals-021	[NT]	86	<0.1	<0.1	0	107	119
Nickel	mg/kg	1	Metals-020	[NT]	86	<1	<1	0	106	112
Zinc	mg/kg	1	Metals-020	[NT]	86	11	13	17	109	112

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	330992-175
Date prepared	-			[NT]	99	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	99	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	99	<4	<4	0	111	113
Cadmium	mg/kg	0.4	Metals-020	[NT]	99	<0.4	<0.4	0	101	101
Chromium	mg/kg	1	Metals-020	[NT]	99	3	6	67	115	101
Copper	mg/kg	1	Metals-020	[NT]	99	<1	<1	0	111	108
Lead	mg/kg	1	Metals-020	[NT]	99	2	2	0	114	102
Mercury	mg/kg	0.1	Metals-021	[NT]	99	<0.1	<0.1	0	111	#
Nickel	mg/kg	1	Metals-020	[NT]	99	1	2	67	107	107
Zinc	mg/kg	1	Metals-020	[NT]	99	2	4	67	108	112

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	330992-194
Date prepared	-			[NT]	120	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	120	28/08/2023	28/08/2023		28/08/2023	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	120	<4	<4	0	109	112
Cadmium	mg/kg	0.4	Metals-020	[NT]	120	<0.4	<0.4	0	100	99
Chromium	mg/kg	1	Metals-020	[NT]	120	8	8	0	114	109
Copper	mg/kg	1	Metals-020	[NT]	120	1	2	67	110	107
Lead	mg/kg	1	Metals-020	[NT]	120	67	67	0	113	#
Mercury	mg/kg	0.1	Metals-021	[NT]	120	<0.1	<0.1	0	106	#
Nickel	mg/kg	1	Metals-020	[NT]	120	<1	1	0	106	104
Zinc	mg/kg	1	Metals-020	[NT]	120	5	6	18	108	105

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-231
Date prepared	-			[NT]	138	25/08/2023	25/08/2023		[NT]	25/08/2023
Date analysed	-			[NT]	138	28/08/2023	28/08/2023		[NT]	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	138	<4	<4	0	[NT]	114
Cadmium	mg/kg	0.4	Metals-020	[NT]	138	<0.4	<0.4	0	[NT]	103
Chromium	mg/kg	1	Metals-020	[NT]	138	77	76	1	[NT]	108
Copper	mg/kg	1	Metals-020	[NT]	138	15	15	0	[NT]	114
Lead	mg/kg	1	Metals-020	[NT]	138	560	620	10	[NT]	105
Mercury	mg/kg	0.1	Metals-021	[NT]	138	0.1	0.1	0	[NT]	#
Nickel	mg/kg	1	Metals-020	[NT]	138	13	15	14	[NT]	106
Zinc	mg/kg	1	Metals-020	[NT]	138	110	140	24	[NT]	102

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-266
Date prepared	-			[NT]	141	25/08/2023	25/08/2023		[NT]	25/08/2023
Date analysed	-			[NT]	141	28/08/2023	28/08/2023		[NT]	28/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	141	<4	<4	0	[NT]	113
Cadmium	mg/kg	0.4	Metals-020	[NT]	141	<0.4	<0.4	0	[NT]	104
Chromium	mg/kg	1	Metals-020	[NT]	141	3	3	0	[NT]	106
Copper	mg/kg	1	Metals-020	[NT]	141	19	17	11	[NT]	109
Lead	mg/kg	1	Metals-020	[NT]	141	36	38	5	[NT]	107
Mercury	mg/kg	0.1	Metals-021	[NT]	141	<0.1	<0.1	0	[NT]	75
Nickel	mg/kg	1	Metals-020	[NT]	141	<1	1	0	[NT]	106
Zinc	mg/kg	1	Metals-020	[NT]	141	46	61	28	[NT]	104

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	156	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	156	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	156	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	156	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	156	26	21	21	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	156	22	74	108	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	156	430	370	15	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	156	0.3	0.3	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	156	12	10	18	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	156	100	96	4	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	164	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	164	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	164	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	164	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	164	50	46	8	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	164	26	22	17	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	164	16	9	56	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	164	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	164	56	53	6	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	164	46	34	30	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	182	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	182	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	182	14	21	40	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	182	510	550	8	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	182	1200	1300	8	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	182	3800	3700	3	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	182	150	170	12	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	182	41	38	8	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	182	830	540	42	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	190	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	190	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	190	4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	190	3	2	40	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	190	300	230	26	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	190	190	130	38	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	190	4800	1400	110	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	190	18	19	5	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	190	10	14	33	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	190	510	810	45	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	203	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	203	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	203	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	203	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	203	7	8	13	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	203	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	203	1	<1	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	203	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	203	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	203	5	5	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	218	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	218	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	218	7.4	6.6	11	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	218	31	28	10	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	218	18	17	6	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	218	150	120	22	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	218	16	16	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	218	5	10	67	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	218	140	110	24	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	242	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	242	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	242	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	242	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	242	6	29	131	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	242	<1	1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	242	<1	3	100	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	242	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	242	<1	1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	242	8	9	12	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	245	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	245	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	245	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	245	<0.4	0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	245	92	82	11	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	245	35	38	8	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	245	200	250	22	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	245	5.8	8.7	40	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	245	70	63	11	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	245	170	260	42	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	259	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	259	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	259	6	7	15	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	259	3	4.6	42	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	259	120	110	9	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	259	180	150	18	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	259	430	410	5	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	259	7.2	7.2	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	259	36	35	3	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	259	530	490	8	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	270	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	270	28/08/2023	28/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	270	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	270	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	270	1	1	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	270	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	270	<1	<1	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	270	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	270	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	270	<1	1	0	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	330992-21
Date prepared	-			25/08/2023	42	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			25/08/2023	42	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	42	<0.1	<0.1	0	110	108
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	42	<0.1	<0.1	0	111	105
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	42	<0.1	<0.1	0	119	119
6:2 FTS	µg/kg	0.1	Org-029	<0.1	42	<0.1	<0.1	0	103	101
8:2 FTS	µg/kg	0.2	Org-029	<0.2	42	<0.2	<0.2	0	114	101
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	99	42	94	99	5	99	99
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	96	42	96	97	1	100	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	111	42	106	107	1	105	102
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	109	42	113	113	0	108	109
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	117	42	119	120	1	111	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	114	42	126	137	8	112	113
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	125	42	136	128	6	114	130

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	330992-109
Date prepared	-			[NT]	86	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	86	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	86	<0.1	<0.1	0	107	106
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	86	<0.1	<0.1	0	108	109
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	86	<0.1	<0.1	0	114	113
6:2 FTS	µg/kg	0.1	Org-029	[NT]	86	<0.1	<0.1	0	104	94
8:2 FTS	µg/kg	0.2	Org-029	[NT]	86	<0.2	<0.2	0	104	90
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	86	96	100	4	98	96
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	86	99	97	2	100	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	86	107	106	1	104	102
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	86	112	111	1	106	106
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	86	112	119	6	111	123

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	330992-109
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	86	112	112	0	107	155
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	86	112	120	7	119	175

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	330992-259
Date prepared	-			[NT]	94	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Date analysed	-			[NT]	94	25/08/2023	25/08/2023		25/08/2023	25/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	94	<0.1	<0.1	0	112	109
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	94	<0.1	<0.1	0	114	90
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	94	<0.1	<0.1	0	110	107
6:2 FTS	µg/kg	0.1	Org-029	[NT]	94	<0.1	<0.1	0	113	52
8:2 FTS	µg/kg	0.2	Org-029	[NT]	94	<0.2	<0.2	0	106	92
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	94	95	97	2	98	96
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	94	98	98	0	100	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	94	98	95	3	104	100
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	94	100	102	2	107	105
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	94	104	107	3	113	126
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	94	105	102	3	113	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	94	100	103	3	124	#

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	130	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	130	25/08/2023	25/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	130	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	130	0.1	<0.1	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	130	<0.1	<0.1	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	130	<0.1	<0.1	0	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	130	<0.2	<0.2	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	130	96	96	0	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	130	97	93	4	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	130	104	107	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	130	111	107	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	130	115	110	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	130	120	107	11	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	130	130	99	27	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	218	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	218	25/08/2023	25/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	218	0.3	0.4	29	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	218	8.0	8.9	11	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	218	0.5	0.5	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	218	0.6	0.6	0	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	218	0.3	0.3	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	218	97	98	1	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	218	99	104	5	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	218	102	103	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	218	108	108	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	218	124	123	1	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-029	[NT]	218	167	174	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-029	[NT]	218	#	187		[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	263	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	263	25/08/2023	25/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	263	1.5	1.7	12	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	263	16	19	17	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	263	0.6	0.6	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	263	0.2	0.1	67	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	263	<0.2	<0.2	0	[NT]	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-029	[NT]	263	94	98	4	[NT]	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-029	[NT]	263	106	109	3	[NT]	[NT]
Extracted ISTD $^{18}O_2$ PFHxS	%		Org-029	[NT]	263	100	98	2	[NT]	[NT]
Extracted ISTD $^{13}C_4$ PFOS	%		Org-029	[NT]	263	98	97	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ PFOA	%		Org-029	[NT]	263	126	122	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-029	[NT]	263	#	#		[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-029	[NT]	263	#	#		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

VOCs in soil - # Percent recovery for the surrogate is not possible to report due to interference from analytes (other than those being tested) in samples 330992-200,252,255.

sTPH in Soil (C10-C40)-Silica - Samples 18,20,92,93,226,238-240 not tested due to TRH results being < PQL.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.
Note: Sample 330992-223 was sub-sampled from a jar provided by the client.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Note: All samples analysed as received. However, all samples except 330992-21, 42, 71, 109, 130, 131 are below the minimum recommended 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

Factual description of asbestos identified in the soil samples: NEPM
Sample 330992-84; Chrysotile & Amosite asbestos identified in 2.0943g of fibrous matted material
Sample 330992-128; Chrysotile asbestos identified in 0.0002g of loose fibre bundles
Sample 330992-146; Chrysotile & Crocidolite asbestos identified in 8.4626g of fibre cement material >7mm
Sample 330992-146; Chrysotile & Amosite asbestos identified in 0.4703g of fibrous matted material
Sample 330992-156; Chrysotile, Amosite & Crocidolite asbestos identified in 0.2980g of fibre cement material >7mm
Sample 330992-156; Amosite asbestos identified in 0.2085g of loose fibre bundles
Sample 330992-175; Chrysotile, Amosite & Crocidolite asbestos identified in 0.0445g of loose fibre bundles
Sample 330992-182; Chrysotile & Amosite asbestos identified in 0.0904g of fibrous matted material
Sample 330992-205; Chrysotile, Amosite & Crocidolite asbestos identified in 0.1215g of fibre cement material >7mm
Sample 330992-216; Chrysotile, Amosite & Crocidolite asbestos identified in 6.1525g of fibre cement material >7mm
Sample 330992-244; Chrysotile, Amosite & Crocidolite asbestos identified in 0.0247g of fibrous matted material
Sample 330992-263; Chrysotile, Amosite & Crocidolite asbestos identified in 0.3822g of fibrous matted material
Sample 330992-263; Chrysotile & Amosite asbestos identified in 1.6313g of fibre cement material >7mm

PFAS: For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Acid Extractable Metals in Soil:
-The laboratory RPD acceptance criteria has been exceeded for 330992-60 for Cr,Ni. Therefore a triplicate result has been issued as laboratory sample number 330992-280.
-The laboratory RPD acceptance criteria has been exceeded for 330992-156 for Cu. Therefore a triplicate result has been issued as laboratory sample number 330992-281.
-The laboratory RPD acceptance criteria has been exceeded for 330992-164 for Pb. Therefore a triplicate result has been issued as laboratory sample number 330992-282.
-The laboratory RPD acceptance criteria has been exceeded for 330992-182 for Cd and Zn. Therefore a triplicate result has been issued as laboratory sample number 330992-283.
-The laboratory RPD acceptance criteria has been exceeded for 330992-190 for Pb and Zn. Therefore a triplicate result has been issued as laboratory sample number 330992-284.
-The laboratory RPD acceptance criteria has been exceeded for 330992-218 for Ni. Therefore a triplicate result has been issued as laboratory sample number 330992-285.
-The laboratory RPD acceptance criteria has been exceeded for 330992-242 for Cr. Therefore a triplicate result has been issued as laboratory sample number 330992-286.
-The laboratory RPD acceptance criteria has been exceeded for 330992-245 for Hg and Zn. Therefore a triplicate result has been issued as laboratory sample number 330992-287.
-# Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

TRH Soil C10-C40 NEPM - The laboratory RPD acceptance criteria has been exceeded for 330992-263. Therefore a triplicate result has been issued as laboratory sample number 330992-288.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	330992
Date Sample Received	18/08/2023
Date Instructions Received	21/08/2023
Date Results Expected to be Reported	28/08/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	279 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
301-0.2-0.4														✓
301-0.5-0.7		✓	✓	✓	✓	✓	✓	✓	✓	✓				
301-1-1.2		✓	✓	✓					✓					
301-1.8-2														✓
302-0.2-0.4		✓	✓	✓					✓					
302-0.5-0.7														✓
302-0.8-1		✓	✓	✓	✓		✓		✓	✓				
302-1.3-1.5														✓
302-1.8-2														✓
302-2.3-2.5		✓	✓	✓					✓					
302-2.8-3		✓	✓	✓					✓					
302-3.8-4														✓
302-4.8-5		✓	✓											
302-5.8-6														✓
302-6.8-7		✓	✓											
302-7.8-8														✓
302-8.8-9														✓
302-9.8-10	✓	✓	✓								✓			
302-10.8-11														✓
302-11.5-11.6	✓	✓	✓								✓			
303-0.2-0.4		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
303-0.7-0.9														✓
303-1.2-1.4		✓	✓	✓	✓		✓		✓	✓				
303-1.7-1.9		✓	✓	✓					✓	✓		✓		
303-2.1-2.3		✓	✓											
303-2.6-2.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
303-3-3.2		✓	✓	✓				✓	✓					
303-3.8-4														✓
303-4.8-5		✓	✓	✓				✓	✓			✓		
304-0.2-0.3		✓	✓	✓	✓	✓	✓	✓	✓	✓				
304-0.3-0.5		✓	✓	✓					✓	✓				
304-0.8-1														✓

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
304-1.3-1.5														✓
304-1.7-1.9		✓	✓	✓				✓	✓					
304-2.3-2.5														✓
304-2.8-3		✓	✓											
304-3.8-4		✓	✓											
304-4.3-4.5	✓	✓	✓											
304-4.8-5	✓	✓	✓	✓				✓	✓		✓			
304-5.3-5.5	✓	✓	✓											
304-5.8-6		✓	✓											
306-0.2-0.3		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
306-0.4-0.6														✓
306-0.8-1		✓	✓	✓				✓	✓			✓		
306-1.2-1.4		✓	✓											
306-1.8-2														✓
306-2.8-3														✓
306-3.8-4	✓	✓	✓	✓				✓	✓			✓		
309-0.2-0.4		✓	✓	✓	✓	✓	✓	✓	✓	✓				
309-0.5-0.7	✓	✓	✓	✓					✓	✓				
309-0.9-1.1	✓	✓	✓											
309-1.2-1.4		✓	✓	✓					✓					
309-1.8-2		✓	✓											
309-2.8-3		✓	✓											
309-3.8-4														✓
309-4.8-5	✓	✓	✓	✓				✓	✓					
309-5.8-6	✓	✓	✓	✓					✓					
309-6.8-7														✓
309-7.8-8		✓	✓	✓				✓	✓					
310-0.2-0.4		✓	✓	✓	✓	✓	✓	✓	✓	✓				
310-0.5-0.7														✓
310-0.8-1		✓	✓	✓	✓	✓	✓	✓	✓	✓				
310-1.2-1.4														✓
310-1.6-1.8		✓	✓	✓				✓	✓					

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
310-2.6-2.8														✓
310-3.6-3.8		✓	✓											
310-4.6-4.8	✓	✓	✓											
310-5.6-5.8	✓	✓	✓	✓				✓	✓					
310-6.6-6.8	✓	✓	✓											
310-7.6-7.8		✓	✓											
311-0.2-0.3		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
311-0.5-0.7		✓	✓	✓					✓	✓		✓		
311-1-1.2														✓
311-1.5-1.7														✓
311-2-2.2		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
311-2.5-2.7														✓
311-3.4-3.6		✓	✓									✓		
311-4.4-4.6		✓	✓									✓		
311-5.4-5.6	✓	✓	✓	✓				✓	✓			✓		
311-6.4-6.6		✓	✓											
311-7.4-7.6		✓	✓	✓					✓					
311-8.4-8.6		✓	✓	✓					✓			✓		
311-9.4-9.6														✓
315-0.2-0.3		✓	✓	✓					✓	✓		✓		
315-0.5-0.7														✓
315-0.8-1		✓	✓	✓	✓	✓	✓	✓	✓			✓		
315-1.5-1.7		✓	✓	✓	✓	✓	✓	✓	✓			✓		
315-1.8-2														✓
315-2.8-3		✓	✓	✓				✓	✓					
315-3.8-4	✓	✓	✓	✓				✓	✓			✓		
315-4.8-5	✓	✓	✓	✓				✓	✓		✓	✓		
315-5.3-5.5	✓	✓	✓	✓				✓	✓		✓	✓		
315-5.8-6	✓	✓	✓	✓				✓	✓		✓	✓		
315-6.3-6.5	✓	✓	✓	✓				✓	✓			✓		
315-6.8-7		✓	✓											
315-7.8-8		✓	✓											

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
318-0.2-0.4		✓	✓	✓					✓	✓				
318-0.7-0.9														✓
318-1-1.2		✓	✓	✓	✓	✓	✓	✓	✓	✓				
318-1.5-1.7		✓	✓	✓				✓	✓					
318-2-2.2														✓
318-2.5-2.7		✓	✓	✓					✓					
318-3.5-3.7		✓	✓											
318-4.5-4.7	✓	✓	✓	✓				✓	✓					
318-4.8-5	✓	✓	✓	✓					✓					
318-5.8-6		✓	✓											
318-6.8-7	✓	✓	✓	✓					✓					
318-7.8-8														✓
319-0.25-0.35		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
319-0.5-0.7		✓	✓	✓				✓	✓			✓		
319-1.1-1.3		✓	✓	✓					✓			✓		
319-1.4-1.6		✓	✓	✓				✓	✓			✓		
319-1.9-2.1														✓
319-2.8-3		✓	✓									✓		
319-3.8-4		✓	✓	✓					✓					
319-4.8-5		✓	✓									✓		
319-5.8-6	✓	✓	✓	✓				✓	✓			✓		
319-6.8-7		✓	✓											
319-7.8-8		✓	✓	✓					✓			✓		
320A-0.15-0.25		✓	✓	✓	✓	✓	✓	✓	✓	✓				
320A-0.5-0.6		✓	✓	✓					✓					
320A-0.9-1														✓
320B-0.2-0.4		✓	✓	✓					✓	✓				
320B-0.5-0.7		✓	✓	✓					✓					
320B-0.8-1		✓	✓	✓					✓					
320B-1.3-1.5														✓
320B-1.8-2														✓
321-0.2-0.4		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
321-0.5-0.7														✓
321-1-1.2		✓	✓	✓					✓	✓		✓		
321-2-2.2		✓	✓	✓					✓	✓		✓		
321-3-3.2														✓
321-4-4.2		✓	✓	✓				✓	✓			✓		
321-5-5.2		✓	✓	✓				✓	✓			✓		
321-6-6.2		✓	✓	✓					✓			✓		
321-7-7.2		✓	✓									✓		
321-8-8.2														✓
322-0.2-0.4	✓	✓	✓	✓					✓	✓				
322-0.6-0.8	✓	✓	✓	✓					✓					
322-1-1.2														✓
322-1.8-2		✓	✓	✓					✓					
322-2.3-2.5		✓	✓	✓					✓					
322-2.8-3														✓
322-3-3.2		✓	✓	✓					✓					
322-3.8-4														✓
322A-0.2-0.4	✓	✓	✓	✓					✓	✓				
322A-0.6-0.8	✓	✓	✓	✓					✓	✓				
322A-1-1.2		✓	✓	✓					✓	✓				
322A-1.3-1.5														✓
322A-1.8-2		✓	✓	✓					✓	✓				
322A-2.3-2.5		✓	✓	✓					✓	✓				
322A-2.8-3														✓
322A-3.3-3.5		✓	✓	✓					✓					
322A-3.8-4														✓
322A-4.3-4.5		✓	✓	✓					✓					
322B-0.2-0.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
322B-0.5-0.7		✓	✓	✓					✓					
322B-1-1.2														✓
322B-1.5-1.7		✓	✓	✓					✓	✓				
322B-2-2.2		✓	✓	✓					✓					

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
322B-3-3.2		✓	✓	✓					✓					
322B-3.8-4														✓
322C-0.2-0.4		✓	✓	✓					✓	✓		✓		
322C-0.6-0.8		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
322C-1.2-1.4		✓	✓	✓					✓					
322C-1.5-1.7		✓	✓	✓					✓			✓		
322C-2.5-2.7		✓	✓	✓					✓					
322C-3.3-3.5		✓	✓	✓					✓			✓		
322C-4.3-4.5														✓
322C-4.8-5		✓	✓	✓				✓	✓			✓		
322C-5.8-6		✓	✓	✓				✓	✓			✓		
322C-6.8-7														✓
322C-7.8-8		✓	✓	✓					✓			✓		
322C-8.8-9														✓
322D-0.2-0.4		✓	✓	✓	✓	✓	✓	✓	✓	✓				
322D-0.7-0.9		✓	✓	✓	✓		✓		✓	✓				
322D-1.2-1.4														✓
322D-1.7-1.9		✓	✓	✓					✓					
322D-2.2-2.4		✓	✓	✓					✓					
322D-2.6-2.8		✓	✓	✓					✓					
322D-3.6-3.8														✓
328D-0.25-0.35		✓	✓	✓	✓	✓	✓	✓	✓	✓				
328D-0.5-0.7		✓	✓	✓	✓	✓	✓	✓	✓	✓				
328D-1-1.2														✓
328D-1.5-1.7		✓	✓	✓				✓	✓					
328D-2-2.2														✓
328D-2.4-2.6		✓	✓	✓					✓					
328D-3-3.2		✓	✓	✓					✓					
329-0.1-0.3		✓	✓	✓	✓	✓	✓	✓	✓					
329-0.5-0.7		✓	✓	✓					✓					
329-1-1.2														✓
329-1.3-1.5		✓	✓	✓	✓		✓		✓					

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
329-1.8-2														✓
329-2.3-2.5		✓	✓	✓					✓					
329-2.8-3		✓	✓	✓					✓					
329-3.3-3.5														✓
329-3.8-4		✓	✓	✓					✓					
329-4.1-4.3		✓	✓											
329-4.6-4.8	✓	✓	✓											
329-5-5.2	✓	✓	✓	✓					✓					
329-5.5-5.7	✓	✓	✓											
329-6-6.2	✓	✓	✓	✓					✓					
329-6.5-6.7		✓	✓	✓					✓					
329-6.8-7		✓	✓											
329A-0.1-0.3		✓	✓	✓	✓		✓		✓	✓				
329A-0.5-0.7		✓	✓	✓					✓					
329A-0.8-1														✓
329A-1.3-1.5		✓	✓	✓	✓		✓		✓	✓				
329A-1.8-2		✓	✓	✓					✓					
329A-2.3-2.5														✓
329A-2.8-3		✓	✓	✓					✓	✓				
329A-3.3-3.5		✓	✓	✓					✓	✓				
329A-3.8-4		✓	✓	✓					✓					
329A-4.5-4.7														✓
329B-0.1-0.2		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
329B-0.5-0.7		✓	✓	✓					✓	✓				
329B-1-1.2														✓
329B-1.5-1.6		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
329B-2-2.2		✓	✓	✓					✓					
329B-2.5-2.7												✓		
329B-3.5-3.7		✓	✓	✓	✓		✓		✓	✓		✓		
329B-4.3-4.5		✓	✓	✓					✓	✓		✓		
329B-5-5.1	✓	✓	✓	✓	✓	✓	✓	✓	✓					
329B-5.2-5.4		✓	✓	✓					✓			✓		

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
329B-5.8-6														✓
329B-6.8-7		✓	✓	✓					✓		✓	✓		
329B-7.8-8														✓
329C-0.1-0.2		✓	✓	✓					✓	✓				
329C-0.5-0.7		✓	✓	✓					✓					
329C-1-1.2														✓
329C-1.5-1.7		✓	✓	✓	✓	✓	✓	✓	✓	✓				
329C-1.9-2.1														✓
329C-2.3-2.5		✓	✓	✓					✓	✓				
329C-2.8-3														✓
329C-3.3-3.5		✓	✓	✓					✓					
329C-3.8-4														✓
329C-4.1-4.3		✓	✓	✓					✓					
329C-4.6-4.8	✓	✓	✓	✓				✓	✓		✓			
329C-5.1-5.3	✓	✓	✓								✓			
329C-5.6-5.8	✓	✓	✓	✓					✓		✓			
329C-6.4-6.6														✓
329C-6.8-7		✓	✓	✓					✓					
329C-7.8-8														✓
329D-0.1-0.3		✓	✓	✓	✓	✓	✓	✓	✓	✓				
329D-0.5-0.7		✓	✓	✓					✓					
329D-0.9-1.1		✓	✓	✓					✓					
329D-1.4-1.6														✓
329D-1.9-2.1		✓	✓	✓	✓		✓		✓	✓				
329D-2.4-2.6	✓													
329D-2.9-3.1	✓										✓			
329D-3.4-3.6	✓	✓	✓								✓			
329D-4-4.2	✓	✓	✓	✓					✓		✓			
329D-4.5-4.7	✓	✓	✓								✓			
329D-5-5.2	✓										✓			
329D-5.5-5.7	✓										✓			
329D-6-6.2	✓													

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	sTPH in Soil (C10-C40)-Silica	PFAS in Soils Short	Asbestos ID - materials	On Hold
329D-6.5-6.7		✓	✓											
329D-6.9-7		✓	✓	✓					✓					
330-0.1-0.3		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
330-0.5-0.7														✓
330-1-1.2		✓	✓	✓					✓	✓		✓		
330-1.5-1.7														✓
330-2-2.2	✓	✓	✓	✓	✓		✓		✓	✓		✓		
BD1/20230810														✓
BD2/20230810		✓	✓	✓					✓					
BD1/20230811		✓	✓	✓				✓	✓					
BD2/20230811														✓
BD3/20230815														✓
BD1/20230816		✓	✓	✓					✓					
BD2/20230816		✓	✓	✓					✓					
BD3/20230816	✓	✓	✓											
Trip Spike/20230810		✓												
Trip Spike/20230814		✓												
Trip Blank/20230810		✓												
Trip Blank/20230814		✓												
329/PACM1-Surface													✓	
329C/PACM2-1													✓	
321-2.2-2.4														✓
BD1/20230814														✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

COC received: 21/8 1000

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow			**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au					**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						(02) 9910 6200 samplereceipt@envir
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)			

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
1	301	0.2	0.4	17-08-23	S	J,B													x	
2	301	0.5	0.7	17-08-23	S	J,B	x													
3	301	1	1.2	17-08-23	S	J						x								
4	301	1.8	2	17-08-23	S	J													x	
5	302	0.2	0.4	17-08-23	S	J,B						x								
6	302	0.5	0.7	17-08-23	S	J,B													x	
7	302	0.8	1	17-08-23	S	J,B			x											
8	302	1.3	1.5	17-08-23	S	J,B													x	
9	302	1.8	2	17-08-23	S	J,B													x	
10	302	2.3	2.5	17-08-23	S	J						x								
11	302	2.8	3	17-08-23	S	J						x								
12	302	3.8	4	17-08-23	S	J													x	
13	302	4.8	5	17-08-23	S	J							x							
14	302	5.8	6	17-08-23	S	J														

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:** (02) 9809 0666	
Relinquished by:	Nathan Woodward 2:30pm, 18/8/23	**Date:** 18-08-23	**Signed:**

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

LAB RECEIPT	
Lab Ref. No:	Job No: 336992
Received by:	
Date & Time:	Date Received: 18/8/23
Signed:	Time Received: 1600
	Received By:
	Temp: Cool/Ambient 4.°C
	Cooling: Ice/Icepack
	Security: Intact/Broken/None

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Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18-08-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
15	302	6.8	7	17-08-23	S	J							x							
16	302	7.8	8	17-08-23	S	J													x	
17	302	8.8	9	17-08-23	S	J													x	
18	302	9.8	10	17-08-23	S	J							x	x	x					
19	302	10.8	11	17-08-23	S	J													x	
20	302	11.5	11.6	17-08-23	S	J							x	x	x					
21	303	0.2	0.4	17-08-23	S	J,P,B	x											x		
22	303	0.7	0.9	17-08-23	S	J,P,B													x	
23	303	1.2	1.4	17-08-23	S	J,P,B			x											
24	303	1.7	1.9	17-08-23	S	J,P,B					x							x		
25	303	2.1	2.3	17-08-23	S	J,P,B							x							
26	303	2.6	2.8	17-08-23	S	J,P,B	x							x				x		
27	303	3	3.2	17-08-23	S	J,P		x												
28	303	3.8	4	17-08-23	S	J,P													x	
29	303	4.8	5	17-08-23	S	J,P		x										x		
30	304	0.2	0.3	17-08-23	S	J,B	x													
31	304	0.3	0.5	17-08-23	S	J,B					x									
32	304	0.8	1	17-08-23	S	J,B													x	

338992
18/8/23
1600 AM

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18-08-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
33	304	1.3	1.5	17-08-23	S	J,B													x	
34	304	1.7	1.9	17-08-23	S	J		x												
35	304	2.3	2.5	17-08-23	S	J													x	
36	304	2.8	3	17-08-23	S	J							x							
37	304	3.8	4	17-08-23	S	J							x							
38	304	4.3	4.5	17-08-23	S	J							x	x						
39	304	4.8	5	17-08-23	S	J		x						x	x					
40	304	5.3	5.5	17-08-23	S	J							x	x						
41	304	5.8	6	17-08-23	S	J							x							
42	306	0.2	0.3	11-08-23	S	J,P,B	x											x		
43	306	0.4	0.6	11-08-23	S	J,P,B													x	
44	306	0.8	1	11-08-23	S	J,P		x										x		
45	306	1.2	1.4	11-08-23	S	J,P							x							
46	306	1.8	2	11-08-23	S	J,P													x	
47	306	2.8	3	11-08-23	S	J,P													x	
48	306	3.8	4	11-08-23	S	J,P		x						x				x		
49	309	0.2	0.4	16-08-23	S	J,B	x													
50	309	0.5	0.7	16-08-23	S	J,B					x			x						
51	309	0.9	1.1	16-08-23	S	J,B							x	x						

330982
18/8/23
1600

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18-08-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
52	309	1.2	1.4	16-08-23	S	J						x								
53	309	1.8	2	16-08-23	S	J													x	
54	309	2.8	3	16-08-23	S	J							x							
55	309	3.8	4	16-08-23	S	J													x	
56	309	4.8	5	16-08-23	S	J		x						x						
57	309	5.8	6	16-08-23	S	J						x		x						
58	309	6.8	7	16-08-23	S	J													x	
59	309	7.8	8	16-08-23	S	J		x												
60	310	0.2	0.4	16-08-23	S	J,B	x													
61	310	0.5	0.7	16-08-23	S	J,B													x	
62	310	0.8	1	16-08-23	S	J,B	x													
63	310	1.2	1.4	16-08-23	S	J,B													x	
64	310	1.6	1.8	16-08-23	S	J,B		x												
65	310	2.6	2.8	16-08-23	S	J,B													x	
66	310	3.6	3.8	16-08-23	S	J,B							x							
67	310	4.6	4.8	16-08-23	S	J,B							x	x						
68	310	5.6	5.8	16-08-23	S	J,B		x					x	x						
69	310	6.6	6.8	16-08-23	S	J,B							x	x						
70	310	7.6	7.8	16-08-23	S	J,B							x							330 997 18/8/23 1600 AM

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
71	311	0.2	0.3	10/08/23	S	J,P,B	x											x		
72	311	0.5	0.7	10/08/23	S	J,P,B					x							x		
73	311	1	1.2	10/08/23	S	J,P,B													x	
74	311	1.5	1.7	10/08/23	S	J,P,B													x	
75	311	2	2.2	10/08/23	S	J,P,B	x											x		
76	311	2.5	2.7	10/08/23	S	J,P,B													x	
77	311	3.4	3.6	10/08/23	S	J,P							x					x		
78	311	4.4	4.6	10/08/23	S	J,P							x					x		
79	311	5.4	5.6	10/08/23	S	J,P		x						x				x		
80	311	6.4	6.6	10/08/23	S	J,P							x							
81	311	7.4	7.6	10/08/23	S	J,P						x								
82	311	8.4	8.6	10/08/23	S	J,P						x						x		
83	311	9.4	9.6	10/08/23	S	J,P													x	
84	315	0.2	0.3	11/08/23	S	J,P,B					x							x		
85	315	0.5	0.7	11/08/23	S	J,P,B													x	
86	315	0.8	1	11/08/23	S	J,P,B	x											x		
87	315	1.5	1.7	11/08/23	S	J,P,B	x											x		
88	315	1.8	2	11/08/23	S	J,P													x	330992
89	315	2.8	3	11/08/23	S	J,P		x												18/8/23 1600

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Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
90	315	3.8	4	11/08/23	S	J,P		x						x				x		
91	315	4.8	5	11/08/23	S	J,P		x						x	x			x		
92	315	5.3	5.5	11/08/23	S	J,P		x						x	x			x		
93	315	5.8	6	11/08/23	S	J,P		x						x	x			x		
94	315	6.3	6.5	11/08/23	S	J,P		x						x				x		
95	315	6.8	7	11/08/23	S	J,P							x							
96	315	7.8	8	11/08/23	S	J,P							x							
97	318	0.2	0.4	15/08/23	S	J,B					x									
98	318	0.7	0.9	15/08/23	S	J,B													x	
99	318	1	1.2	15/08/23	S	J,B	x													
100	318	1.5	1.7	15/08/23	S	J		x												
101	318	2	2.2	15/08/23	S	J													x	
102	318	2.5	2.7	15/08/23	S	J						x								
103	318	3.5	3.7	15/08/23	S	J							x							
104	318	4.5	4.7	15/08/23	S	J		x						x						
105	318	4.8	5	15/08/23	S	J						x		x						
106	318	5.8	6	15/08/23	S	J							x							
107	318	6.8	7	15/08/23	S	J						x		x						330942
108	318	7.8	8	15/08/23	S	J													x	16/8/23 1600 AT

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
109	319	0.25	0.35	10/08/23	S	J,P,B	x											x		
110	319	0.5	0.7	10/08/23	S	J,P		x										x		
111	319	1.1	1.3	10/08/23	S	J,P						x						x		
112	319	1.4	1.6	10/08/23	S	J,P		x										x		
113	319	1.9	2.1	10/08/23	S	J,P													x	
114	319	2.8	3	10/08/23	S	J,P							x					x		
115	319	3.8	4	10/08/23	S	J,P						x								
116	319	4.8	5	10/08/23	S	J,P							x					x		
117	319	5.8	6	10/08/23	S	J,P		x						x				x		
118	319	6.8	7	10/08/23	S	J,P							x							
119	319	7.8	8	10/08/23	S	J,P						x						x		
120	320A	0.15	0.25	16/08/23	S	J,B	x													
121	320A	0.5	0.6	16/08/23	S	J						x								
122	320A	0.9	1	16/08/23	S	J													x	
123	320B	0.2	0.4	17/08/23	S	J,B					x									
124	320B	0.5	0.7	17/08/23	S	J,B						x								
125	320B	0.8	1	17/08/23	S	J,B						x								
126	320B	1.3	1.5	17/08/23	S	J,B													x	330992
127	320B	1.8	2	17/08/23	S	J,B													x	18/8/23 1600 AM

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
128	321	0.2	0.4	15/08/23	S	J,P,B	x											x		
129	321	0.5	0.7	15/08/23	S	J,P,B													x	
130	321	1	1.2	15/08/23	S	J,P,B					x							x		
131	321	2	2.2	15/08/23	S	J,P,B					x							x		
132	321	3	3.2	15/08/23	S	J,P													x	
133	321	4	4.2	15/08/23	S	J,P		x										x		
134	321	5	5.2	15/08/23	S	J,P		x										x		
135	321	6	6.2	15/08/23	S	J,P						x						x		
136	321	7	7.2	15/08/23	S	J,P							x					x		
137	321	8	8.2	15/08/23	S	J,P													x	
138	322	0.2	0.4	16/08/23	S	J,B					x			x						
139	322	0.6	0.8	16/08/23	S	J						x		x						
140	322	1	1.2	16/08/23	S	J													x	
141	322	1.8	2	16/08/23	S	J						x								
142	322	2.3	2.5	16/08/23	S	J						x								
143	322	2.8	3	16/08/23	S	J													x	
144	322	3	3.2	16/08/23	S	J						x								
145	322	3.8	4	16/08/23	S	J													x	330492
146	322A	0.2	0.4	16/08/23	S	J,B					x			x						18/8/23 1600 AM

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
147	322A	0.6	0.8	16/08/23	S	J,B					x			x						
148	322A	1	1.2	16/08/23	S	J,B					x									
149	322A	1.3	1.5	16/08/23	S	J,B													x	
150	322A	1.8	2	16/08/23	S	J,B					x									
151	322A	2.3	2.5	16/08/23	S	J,B					x									
152	322A	2.8	3	16/08/23	S	J,B													x	
153	322A	3.3	3.5	16/08/23	S	J						x								
154	322A	3.8	4	16/08/23	S	J													x	
155	322A	4.3	4.5	16/08/23	S	J					x									
156	322B	0.2	0.4	16/08/23	S	J,B	x							x						
157	322B	0.5	0.7	16/08/23	S	J,B						x								
158	322B	1	1.2	16/08/23	S	J,B													x	
159	322B	1.5	1.7	16/08/23	S	J,B					x									
160	322B	2	2.2	16/08/23	S	J,B					x									
161	322B	3	3.2	16/08/23	S	J						x								
162	322B	3.8	4	16/08/23	S	J													x	
163	322C	0.2	0.4	16/08/23	S	J,P,B					x							x		330992
164	322C	0.6	0.8	16/08/23	S	J,P,B	x											x		18/8/23
165	322C	1.2	1.4	16/08/23	S	J,P						x								1600

AM

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
166	322C	1.5	1.7	16/08/23	S	J,P						x						x		
167	322C	2.5	2.7	16/08/23	S	J,P						x								
168	322C	3.3	3.5	16/08/23	S	J,P						x						x		
169	322C	4.3	4.5	16/08/23	S	J,P													x	
170	322C	4.8	5	16/08/23	S	J,P		x										x		
171	322C	5.8	6	16/08/23	S	J,P		x										x		
172	322C	6.8	7	16/08/23	S	J,P													x	
173	322C	7.8	8	16/08/23	S	J,P						x						x		
174	322C	8.8	9	16/08/23	S	J,P													x	
175	322D	0.2	0.4	15/08/23	S	J,B	x													
176	322D	0.7	0.9	15/08/23	S	J,B			x											
177	322D	1.2	1.4	15/08/23	S	J,B													x	
178	322D	1.7	1.9	15/08/23	S	J,B						x								
179	322D	2.2	2.4	15/08/23	S	J,B					x									
180	322D	2.6	2.8	15/08/23	S	J,B						x								
181	322D	3.6	3.8	15/08/23	S	J,B													x	
182	328D	0.25	0.35	11/08/23	S	J,B	x													
183	328D	0.5	0.7	11/08/23	S	J,B	x													330992
184	328D	1	1.2	11/08/23	S	J,B													x	18/8/23 1600 AT

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
185	328D	1.5	1.7	11/08/23	S	J,B		x												
186	328D	2	2.2	11/08/23	S	J,B													x	
187	328D	2.4	2.6	11/08/23	S	J,B						x								
188	328D	3	3.2	11/08/23	S	J,B						x								
189	329	0.1	0.3	14/08/23	S	J,B	x													
190	329	0.5	0.7	14/08/23	S	J,B						x								
191	329	1	1.2	14/08/23	S	J,B													x	
192	329	1.3	1.5	14/08/23	S	J,B			x											
193	329	1.8	2	14/08/23	S	J,B													x	
194	329	2.3	2.5	14/08/23	S	J,B						x								
195	329	2.8	3	14/08/23	S	J,B						x								
196	329	3.3	3.5	14/08/23	S	J,B													x	
197	329	3.8	4	14/08/23	S	J						x								
198	329	4.1	4.3	14/08/23	S	J							x							
199	329	4.6	4.8	14/08/23	S	J							x	x						
200	329	5	5.2	14/08/23	S	J						x		x						
201	329	5.5	5.7	14/08/23	S	J							x	x						
202	329	6	6.2	14/08/23	S	J						x		x						
203	329	6.5	6.7	14/08/23	S	J						x								330942 18/8/23 1600 AY

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
204	329	6.8	7	14/08/23	S	J							x							
205	329A	0.1	0.3	14/08/23	S	J,B			x											
206	329A	0.5	0.7	14/08/23	S	J,B						x								
207	329A	0.8	1	14/08/23	S	J,B													x	
208	329A	1.3	1.5	14/08/23	S	J,B			x											
209	329A	1.8	2	14/08/23	S	J,B						x								
210	329A	2.3	2.5	14/08/23	S	J,B													x	
211	329A	2.8	3	14/08/23	S	J,B					x									
212	329A	3.3	3.5	14/08/23	S	J,B					x									
213	329A	3.8	4	14/08/23	S	J						x								
214	329A	4.5	4.7	14/08/23	S	J													x	
215	329B	0.1	0.2	14/08/23	S	J,P,B	x											x		
216	329B	0.5	0.7	14/08/23	S	J,P,B					x									
217	329B	1	1.2	14/08/23	S	J,P,B													x	
218	329B	1.5	1.6	14/08/23	S	J,P,B	x											x		
219	329B	2	2.2	14/08/23	S	J,P,B						x								
220	329B	2.5	2.7	14/08/23	S	J,P,B													x	
221	329B	3.5	3.7	14/08/23	S	J,P,B			x									x		320992
222	329B	4.3	4.5	14/08/23	S	J,P,B					x							x		18/8/23 1600 DH

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
223	329B	5	5.1	14/08/23	S	J	x							x						
224	329B	5.2	5.4	14/08/23	S	J,P						x						x		
225	329B	5.8	6	14/08/23	S	J,P													x	
226	329B	6.8	7	14/08/23	S	J,P						x			x			x		
227	329B	7.8	8	14/08/23	S	J,P													x	
228	329C	0.1	0.2	15/08/23	S	J,B					x									
229	329C	0.5	0.7	15/08/23	S	J,B						x						-		
230	329C	1	1.2	15/08/23	S	J,B													x	
231	329C	1.5	1.7	15/08/23	S	J,B	x													
232	329C	1.9	2.1	15/08/23	S	J,B													x	.
233	329C	2.3	2.5	15/08/23	S	J,B					x									
234	329C	2.8	3	15/08/23	S	J,B													x	
235	329C	3.3	3.5	15/08/23	S	J,B						x								
236	329C	3.8	4	15/08/23	S	J,B													x	
237	329C	4.1	4.3	15/08/23	S	J						x								
238	329C	4.6	4.8	15/08/23	S	J		x						x						
239	329C	5.1	5.3	15/08/23	S	J							x	x						
240	329C	5.6	5.8	15/08/23	S	J						x	x	x						330992
241	329C	6.4	6.6	15/08/23	S	J													x	18/8/23 1600

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	
242	329C	6.8	7	15/08/23	S	J						x								
243	329C	7.8	8	15/08/23	S	J													x	
244	329D	0.1	0.3	14/08/23	S	J,B	x													
245	329D	0.5	0.7	14/08/23	S	J,B						x								
246	329D	0.9	1.1	14/08/23	S	J,B						x								
247	329D	1.4	1.6	14/08/23	S	J,B													x	
248	329D	1.9	2.1	14/08/23	S	J,B			x											
249	329D	2.4	2.6	14/08/23	S	J,B								x						
250	329D	2.9	3.1	14/08/23	S	J								x	x					
251	329D	3.4	3.6	14/08/23	S	J							x	x	x					
252	329D	4	4.2	14/08/23	S	J						x		x	x					
253	329D	4.5	4.7	14/08/23	S	J							x	x	x					
254	329D	5	5.2	14/08/23	S	J								x	x					
255	329D	5.5	5.7	14/08/23	S	J								x	x					
256	329D	6	6.2	14/08/23	S	J								x						
257	329D	6.5	6.7	14/08/23	S	J							x							
258	329D	6.9	7	14/08/23	S	J						x								
259	330	0.1	0.3	15/08/23	S	J,P,B	x											x		330492
260	330	0.5	0.7	15/08/23	S	J,P,B													x	18/8/23 1600 AC

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CHAIN OF CUSTODY DESPATCH SHEET

Project Manager: David Holden

Dispatch date: 18/08/2023

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
261	330	1	1.2	15/08/23	S	J,P,B					x							x		
262	330	1.5	1.7	15/08/23	S	J,P,B													x	
263	330	2	2.2	15/08/23	S	J,P,B			x					x				x		
264	BD1/20230810	-	-	10/08/23	S	J,B													x	
265	BD2/20230810	-	-	10/08/23	S	J,B						x								
266	BD1/20230811	-	-	11/08/23	S	J,B		x												
267	BD2/20230811	-	-	11/08/23	S	J													x	
	BD1/20230815	-	-	15/08/23	S	J							x					Please forward for interlab anlaysis		
268	BD3/20230815	301/1	-	15/08/23	S	J													x	
269	BD1/20230816	-	-	16/08/23	S	J						x								
270	BD2/20230816	-	-	16/08/23	S	J,P						x								
271	BD3/20230816	-	-	16/08/23	S	J							x	x						
	BD1/20230817	-	-	17/08/23	S	J						x						Please forward for interlab anlaysis		
	BD2/20230817	-	-	17/08/23	S	J,P						x						Please forward for interlab anlaysis		
	BD3/20230817	-	-	17/08/23	S	J							x					Please forward for interlab anlaysis		
272	Trip Spike/20230810		-	10/08/23	S	J							x							
273	Trip Spike/20230814		-	14/08/23	S	J							x							330992
274	Trip Blank/20230810		-	10/08/23	S	J							x							1600 18/8/23
275	Trip Blank/20230814		-	14/08/23	S	J							x							64

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 18/08/2023

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Lead	PFAS (short suite)	Asbestos ID	Notes/ Preservation/ Additional Requirements
276	329/PACM1	Surface	-	14/08/23	M	B													x	
277 ~~278~~	329C/PACM2	1	-	15/08/23	M	B													x	
Extra 278	321	2.2	-2.4																	
		2																		
																				330992
																				18/8/23
																				1600

AH

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CERTIFICATE OF ANALYSIS 330992-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	additional analysis
Date samples received	18/08/2023
Date completed instructions received	01/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	08/09/2023
Date of Issue	12/09/2023

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Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Phalak Inthakesone, Organics Development Manager, Sydney
Priya Samarawickrama, Senior Chemist
Tim Toll, Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil			
Our Reference		330992-A-257	330992-A-258
Your Reference	UNITS	329D	329D
Depth		6.5-6.7	6.9-7
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Date Extracted	-	22/08/2023	22/08/2023
Date Analysed	-	25/08/2023	25/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1
Chloromethane	mg/kg	<1	<1
Vinyl Chloride	mg/kg	<1	<1
Bromomethane	mg/kg	<1	<1
Chloroethane	mg/kg	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1
1,1-dichloroethane	mg/kg	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1
bromochloromethane	mg/kg	<1	<1
chloroform	mg/kg	<1	<1
2,2-dichloropropane	mg/kg	<1	<1
1,2-dichloroethane	mg/kg	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1
1,1-dichloropropene	mg/kg	<1	<1
Cyclohexane	mg/kg	<1	<1
carbon tetrachloride	mg/kg	<1	<1
Benzene	mg/kg	<0.2	<0.2
dibromomethane	mg/kg	<1	<1
1,2-dichloropropane	mg/kg	<1	<1
trichloroethene	mg/kg	<1	<1
bromodichloromethane	mg/kg	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1
Toluene	mg/kg	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1
dibromochloromethane	mg/kg	<1	<1
1,2-dibromoethane	mg/kg	<1	<1
tetrachloroethene	mg/kg	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1
chlorobenzene	mg/kg	<1	<1

VOCs in soil			
Our Reference		330992-A-257	330992-A-258
Your Reference	UNITS	329D	329D
Depth		6.5-6.7	6.9-7
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Ethylbenzene	mg/kg	<1	2
bromoform	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
styrene	mg/kg	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1
o-Xylene	mg/kg	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1
isopropylbenzene	mg/kg	<1	<1
bromobenzene	mg/kg	<1	<1
n-propyl benzene	mg/kg	<1	<1
2-chlorotoluene	mg/kg	<1	<1
4-chlorotoluene	mg/kg	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1
tert-butyl benzene	mg/kg	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	2
1,3-dichlorobenzene	mg/kg	<1	<1
sec-butyl benzene	mg/kg	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1
4-isopropyl toluene	mg/kg	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1
n-butyl benzene	mg/kg	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1
hexachlorobutadiene	mg/kg	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1
Surrogate Dibromofluoromethane	%	99	101
Surrogate aaa-Trifluorotoluene	%	89	96
Surrogate Toluene-d_8	%	100	103
Surrogate 4-Bromofluorobenzene	%	97	98

sTPH in Soil (C10-C40)-Silica						
Our Reference		330992-A-182	330992-A-200	330992-A-205	330992-A-263	330992-A-265
Your Reference	UNITS	328D	329	329A	330	BD2/20230810
Depth		0.25-0.35	5-5.2	0.1-0.3	2-2.2	-
Date Sampled		11/08/2023	14/08/2023	14/08/2023	15/08/2023	10/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	12/09/2023	01/09/2023
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	12/09/2023	06/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	4,900	<50	76	<50
TPH C_{15} - C_{28}	mg/kg	270	<100	130	630	<100
TPH C_{29} - C_{36}	mg/kg	130	<100	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	<50	1,400	<50	110	<50
TPH >C_{16} -C_{34}	mg/kg	380	<100	160	650	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	94	83	84	#	83

Organochlorine Pesticides in soil		
Our Reference		330992-A-261
Your Reference	UNITS	330
Depth		1-1.2
Date Sampled		15/08/2023
Type of sample		Soil
Date extracted	-	08/09/2023
Date analysed	-	08/09/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	2.2
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	10
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	3.9
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	16
Surrogate TCMX	%	92

Acid Extractable metals in soil			
Our Reference		330992-A-191	330992-A-288
Your Reference	UNITS	329	329 - [TRIPLICATE]
Depth		1-1.2	1-1.2
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Date prepared	-	04/09/2023	04/09/2023
Date analysed	-	05/09/2023	05/09/2023
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	0.6	<0.4
Chromium	mg/kg	230	270
Copper	mg/kg	20	22
Lead	mg/kg	1,000	1,100
Mercury	mg/kg	0.6	0.5
Nickel	mg/kg	4	4
Zinc	mg/kg	140	130

Misc Inorg - Soil						
Our Reference		330992-A-39	330992-A-200	330992-A-201	330992-A-251	330992-A-252
Your Reference	UNITS	304	329	329	329D	329D
Depth		4.8-5	5-5.2	5.5-5.7	3.4-3.6	4-4.2
Date Sampled		17/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
pH 1:5 soil:water	pH Units	5.3	6.8	6.4	6.2	6.3
Chloride, Cl 1:5 soil:water	mg/kg	10	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	28	<10	<10	<10	20
Soluble Bicarb as $CaCO_3$ *	mg/kg	94	140	120	160	230
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	94	140	120	160	230

Misc Inorg - Soil			
Our Reference		330992-A-255	330992-A-256
Your Reference	UNITS	329D	329D
Depth		5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Date prepared	-	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023
pH 1:5 soil:water	pH Units	6.1	6.0
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	<10	<10
Soluble Bicarb as $CaCO_3$ *	mg/kg	140	92
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	140	92

Acid Extractable Cations in Soil						
Our Reference		330992-A-39	330992-A-200	330992-A-201	330992-A-251	330992-A-252
Your Reference	UNITS	304	329	329	329D	329D
Depth		4.8-5	5-5.2	5.5-5.7	3.4-3.6	4-4.2
Date Sampled		17/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	08/09/2023	08/09/2023	25/08/2023
Date analysed	-	28/08/2023	28/08/2023	08/09/2023	08/09/2023	28/08/2023
Calcium	mg/kg	30	270	150	540	2,800
Potassium	mg/kg	70	100	100	10	80
Magnesium	mg/kg	140	160	190	<10	50
Sodium	mg/kg	30	20	10	<10	10

Acid Extractable Cations in Soil			
Our Reference		330992-A-255	330992-A-256
Your Reference	UNITS	329D	329D
Depth		5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Date prepared	-	08/09/2023	08/09/2023
Date analysed	-	08/09/2023	08/09/2023
Calcium	mg/kg	130	60
Potassium	mg/kg	80	90
Magnesium	mg/kg	170	130
Sodium	mg/kg	<10	10

Moisture		
Our Reference		330992-A-191
Your Reference	UNITS	329
Depth		1-1.2
Date Sampled		14/08/2023
Type of sample		Soil
Date prepared	-	01/09/2023
Date analysed	-	02/09/2023
Moisture	%	7.5

BTEX in Zero Headspace				
Our Reference		330992-A-251	330992-A-252	330992-A-255
Your Reference	UNITS	329D	329D	329D
Depth		3.4-3.6	4-4.2	5.5-5.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.1	8.1	8.0
pH of soil TCLP (after HCl)	pH units	1.9	1.9	1.9
Extraction fluid used		1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0
Date extracted	-	08/09/2023	08/09/2023	08/09/2023
Date analysed	-	08/09/2023	08/09/2023	08/09/2023
Benzene	µg/L	<100	<100	<200
Toluene	µg/L	<100	330	560
Ethylbenzene	µg/L	11,000	38,000	24,000
m+p-xylene	µg/L	5,400	16,000	11,000
o-xylene	µg/L	2,400	6,300	3,500
Surrogate Dibromofluoromethane	%	98	98	99
Surrogate Toluene-d8	%	99	99	99
Surrogate 4-Bromofluorobenzene	%	98	98	98

BTEX in Zero Headspace ASLP						
Our Reference		330992-A-30	330992-A-39	330992-A-200	330992-A-201	330992-A-251
Your Reference	UNITS	304	304	329	329	329D
Depth		0.2-0.3	4.8-5	5-5.2	5.5-5.7	3.4-3.6
Date Sampled		17/08/2023	17/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	10.6	7.5	7.3	6.3	6.1
Date extracted	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Benzene	µg/L	<1	<1	<50	<1	<100
Toluene	µg/L	5	1	<50	<1	<100
Ethylbenzene	µg/L	2	50	2,800	140	2,800
m+p-xylene	µg/L	3	260	1,200	46	2,700
o-xylene	µg/L	<1	76	<50	8	1,300
Surrogate Dibromofluoromethane	%	105	112	114	113	111
Surrogate Toluene-d8	%	104	118	121	116	97
Surrogate 4-Bromofluorobenzene	%	98	105	108	108	86

BTEX in Zero Headspace ASLP				
Our Reference		330992-A-252	330992-A-255	330992-A-256
Your Reference	UNITS	329D	329D	329D
Depth		4-4.2	5.5-5.7	6-6.2
Date Sampled		14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil
pH of final Leachate	pH units	6.0	6.9	6.8
Date extracted	-	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	05/09/2023	05/09/2023	05/09/2023
Benzene	µg/L	<200	<200	<1
Toluene	µg/L	290	610	2
Ethylbenzene	µg/L	45,000	21,000	360
m+p-xylene	µg/L	20,000	9,600	270
o-xylene	µg/L	8,000	3,600	35
Surrogate Dibromofluoromethane	%	112	103	109
Surrogate Toluene-d8	%	102	106	96
Surrogate 4-Bromofluorobenzene	%	79	90	87

TCLP Preparation - Acid						
Our Reference		330992-A-84	330992-A-110	330992-A-138	330992-A-146	330992-A-148
Your Reference	UNITS	315	319	322	322A	322A
Depth		0.2-0.3	0.5-0.7	0.2-0.4	0.2-0.4	1-1.2
Date Sampled		11/08/2023	10/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.3	6.2	8.1	6.8	8.2
pH of soil TCLP (after HCl)	pH units	1.9	1.8	2.0	1.8	2.0
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	5.0

TCLP Preparation - Acid						
Our Reference		330992-A-156	330992-A-164	330992-A-175	330992-A-182	330992-A-183
Your Reference	UNITS	322B	322C	322D	328D	328D
Depth		0.2-0.4	0.6-0.8	0.2-0.4	0.25-0.35	0.5-0.7
Date Sampled		16/08/2023	16/08/2023	15/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.3	8.8	8.6	9.1	6.5
pH of soil TCLP (after HCl)	pH units	2.0	2.0	2.0	2.0	1.8
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.1	5.2	5.0	5.1	5.0

TCLP Preparation - Acid						
Our Reference		330992-A-189	330992-A-190	330992-A-191	330992-A-192	330992-A-205
Your Reference	UNITS	329	329	329	329	329A
Depth		0.1-0.3	0.5-0.7	1-1.2	1.3-1.5	0.1-0.3
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.8	8.8	9.2	8.9	8.8
pH of soil TCLP (after HCl)	pH units	2.0	2.0	2.0	2.0	2.0
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.1	5.1	5.2	5.0	5.1

TCLP Preparation - Acid						
Our Reference		330992-A-208	330992-A-215	330992-A-216	330992-A-218	330992-A-229
Your Reference	UNITS	329A	329B	329B	329B	329C
Depth		1.3-1.5	0.1-0.2	0.5-0.7	1.5-1.6	0.5-0.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.9	8.8	8.7	8.8	8.9
pH of soil TCLP (after HCl)	pH units	2.0	2.0	2.0	2.0	2.0
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.5	5.1	5.0	5.1

TCLP Preparation - Acid						
Our Reference		330992-A-235	330992-A-244	330992-A-245	330992-A-246	330992-A-261
Your Reference	UNITS	329C	329D	329D	329D	330
Depth		3.3-3.5	0.1-0.3	0.5-0.7	0.9-1.1	1-1.2
Date Sampled		15/08/2023	14/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	9.0	8.4	8.6	9.0	8.9
pH of soil TCLP (after HCl)	pH units	2.0	2.0	2.0	2.0	2.0
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.9	5.0	5.1	5.0	5.1

TCLP Preparation - Acid		
Our Reference		330992-A-263
Your Reference	UNITS	330
Depth		2-2.2
Date Sampled		15/08/2023
Type of sample		Soil
pH of soil for fluid# determ.	pH units	8.7
pH of soil TCLP (after HCl)	pH units	2.0
Extraction fluid used		1
pH of final Leachate	pH units	5.1

PAHs in TCLP (USEPA 1311)			
Our Reference		330992-A-189	330992-A-215
Your Reference	UNITS	329	329B
Depth		0.1-0.3	0.1-0.2
Date Sampled		14/08/2023	14/08/2023
Type of sample		Soil	Soil
Date extracted	-	06/09/2023	06/09/2023
Date analysed	-	07/09/2023	07/09/2023
Naphthalene in TCLP	mg/L	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	102	78

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		330992-A-84	330992-A-138	330992-A-146	330992-A-148	330992-A-156
Your Reference	UNITS	315	322	322A	322A	322B
Depth		0.2-0.3	0.2-0.4	0.2-0.4	1-1.2	0.2-0.4
Date Sampled		11/08/2023	16/08/2023	16/08/2023	16/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	mg/L	[NA]	[NA]	0.38	[NA]	[NA]
Lead	mg/L	0.98	1.7	32	0.80	2.1
Mercury	mg/L	[NA]	[NA]	0.003	[NA]	[NA]
Nickel	mg/L	0.03	[NA]	[NA]	[NA]	[NA]

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		330992-A-164	330992-A-175	330992-A-182	330992-A-183	330992-A-189
Your Reference	UNITS	322C	322D	328D	328D	329
Depth		0.6-0.8	0.2-0.4	0.25-0.35	0.5-0.7	0.1-0.3
Date Sampled		16/08/2023	15/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	mg/L	[NA]	[NA]	0.11	0.05	[NA]
Lead	mg/L	[NA]	1.5	7.4	0.1	2.6
Mercury	mg/L	[NA]	[NA]	0.022	0.0005	<0.0005
Nickel	mg/L	0.1	[NA]	0.07	<0.02	[NA]

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		330992-A-190	330992-A-191	330992-A-192	330992-A-205	330992-A-208
Your Reference	UNITS	329	329	329	329A	329A
Depth		0.5-0.7	1-1.2	1.3-1.5	0.1-0.3	1.3-1.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	mg/L	0.06	[NA]	[NA]	0.03	[NA]
Lead	mg/L	8.8	4.4	23	4.0	2.0
Mercury	mg/L	<0.0005	[NA]	[NA]	<0.0005	0.001

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		330992-A-216	330992-A-218	330992-A-229	330992-A-235	330992-A-244
Your Reference	UNITS	329B	329B	329C	329C	329D
Depth		0.5-0.7	1.5-1.6	0.5-0.7	3.3-3.5	0.1-0.3
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	mg/L	0.05	[NA]	0.14	[NA]	0.05
Lead	mg/L	3.8	1.1	34	<0.03	2.7
Mercury	mg/L	<0.0005	0.0066	<0.0005	<0.0005	<0.0005

Metals from Leaching Fluid pH 2.9 or 5					
Our Reference		330992-A-245	330992-A-246	330992-A-261	330992-A-263
Your Reference	UNITS	329D	329D	330	330
Depth		0.5-0.7	0.9-1.1	1-1.2	2-2.2
Date Sampled		14/08/2023	14/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	mg/L	[NA]	[NA]	0.06	0.02
Lead	mg/L	4.5	2.5	5.4	5.0
Mercury	mg/L	<0.0005	[NA]	<0.0005	<0.0005
Nickel	mg/L	0.07	[NA]	[NA]	[NA]

PFAS in TCLP Short					
Our Reference		330992-A-84	330992-A-110	330992-A-215	330992-A-218
Your Reference	UNITS	315	319	329B	329B
Depth		0.2-0.3	0.5-0.7	0.1-0.2	1.5-1.6
Date Sampled		11/08/2023	10/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.03	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.24	<0.01	0.01	0.11
Perfluorooctanoic acid PFOA	µg/L	0.01	0.04	<0.01	<0.01
6:2 FTS	µg/L	<0.01	0.26	0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	90	94	96	92
Surrogate $^{13}C_2$ *PFOA*	%	97	98	101	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	101	97	99
Extracted ISTD $^{13}C_4$ *PFOS*	%	110	104	105	108
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	104	104	106
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	100	99	109	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	114	108	110	106
Total Positive PFHxS & PFOS	µg/L	0.26	<0.01	0.01	0.11
Total Positive PFOS & PFOA	µg/L	0.25	0.04	0.01	0.11
Total Positive PFAS	µg/L	0.27	0.30	0.02	0.11

ASLP Preparation - Neutral						
Our Reference		330992-A-84	330992-A-110	330992-A-116	330992-A-135	330992-A-138
Your Reference	UNITS	315	319	319	321	322
Depth		0.2-0.3	0.5-0.7	4.8-5	6-6.2	0.2-0.4
Date Sampled		11/08/2023	10/08/2023	10/08/2023	15/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	8.5	6.6	6.5	8.1	7.3

ASLP Preparation - Neutral						
Our Reference		330992-A-146	330992-A-170	330992-A-171	330992-A-182	330992-A-183
Your Reference	UNITS	322A	322C	322C	328D	328D
Depth		0.2-0.4	4.8-5	5.8-6	0.25-0.35	0.5-0.7
Date Sampled		16/08/2023	16/08/2023	16/08/2023	11/08/2023	11/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.4	6.2	6.2	7.8	6.4

ASLP Preparation - Neutral						
Our Reference		330992-A-189	330992-A-190	330992-A-192	330992-A-205	330992-A-208
Your Reference	UNITS	329	329	329	329A	329A
Depth		0.1-0.3	0.5-0.7	1.3-1.5	0.1-0.3	1.3-1.5
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.9	7.7	8.0	6.6	7.1

ASLP Preparation - Neutral						
Our Reference		330992-A-215	330992-A-216	330992-A-218	330992-A-222	330992-A-224
Your Reference	UNITS	329B	329B	329B	329B	329B
Depth		0.1-0.2	0.5-0.7	1.5-1.6	4.3-4.5	5.2-5.4
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.5	7.6	6.6	6.1	6.2

ASLP Preparation - Neutral						
Our Reference		330992-A-229	330992-A-244	330992-A-245	330992-A-261	330992-A-263
Your Reference	UNITS	329C	329D	329D	330	330
Depth		0.5-0.7	0.1-0.3	0.5-0.7	1-1.2	2-2.2
Date Sampled		15/08/2023	14/08/2023	14/08/2023	15/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.7	6.5	7.5	7.5	7.4

OCP in Water Leach				
Our Reference		330992-A-182	330992-A-189	330992-A-263
Your Reference	UNITS	328D	329	330
Depth		0.25-0.35	0.1-0.3	2-2.2
Date Sampled		11/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	06/09/2023	07/09/2023	06/09/2023
HCB	µg/L	<0.2	<0.2	<0.2
alpha-BHC	µg/L	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2
Endosulfan I	µg/L	1	<0.2	0.2
pp-DDE	µg/L	3.7	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2
pp-DDD	µg/L	2.4	<0.2	0.7
Endosulfan II	µg/L	<0.2	<0.2	<0.2
pp-DDT	µg/L	2.3	0.3	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2
Surrogate TCMX	%	98	104	93

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		330992-A-138	330992-A-146	330992-A-182	330992-A-183	330992-A-189
Your Reference	UNITS	322	322A	328D	328D	329
Depth		0.2-0.4	0.2-0.4	0.25-0.35	0.5-0.7	0.1-0.3
Date Sampled		16/08/2023	16/08/2023	11/08/2023	11/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	µg/L	[NA]	[NA]	48	19	[NA]
Lead	µg/L	28	460	210	8	[NA]
Mercury	µg/L	[NA]	15	87	4.4	0.60

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		330992-A-190	330992-A-192	330992-A-205	330992-A-208	330992-A-216
Your Reference	UNITS	329	329	329A	329A	329B
Depth		0.5-0.7	1.3-1.5	0.1-0.3	1.3-1.5	0.5-0.7
Date Sampled		14/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	µg/L	40	[NA]	37	[NA]	110
Lead	µg/L	120	56	49	18	57
Mercury	µg/L	1.5	[NA]	0.90	12	0.82

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		330992-A-218	330992-A-229	330992-A-244	330992-A-245	330992-A-261
Your Reference	UNITS	329B	329C	329D	329D	330
Depth		1.5-1.6	0.5-0.7	0.1-0.3	0.5-0.7	1-1.2
Date Sampled		14/08/2023	15/08/2023	14/08/2023	14/08/2023	15/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Chromium	µg/L	[NA]	72	34	[NA]	29
Lead	µg/L	19	150	65	[NA]	27
Mercury	µg/L	140	0.84	0.55	0.3	0.4

Metals from Neutral Leaching Fluid ICPMS		
Our Reference		330992-A-263
Your Reference	UNITS	330
Depth		2-2.2
Date Sampled		15/08/2023
Type of sample		Soil
Date extracted	-	07/09/2023
Date analysed	-	07/09/2023
Chromium	µg/L	58
Lead	µg/L	33
Mercury	µg/L	0.2

PFAS in ASLP Short						
Our Reference		330992-A-84	330992-A-110	330992-A-116	330992-A-135	330992-A-170
Your Reference	UNITS	315	319	319	321	322C
Depth		0.2-0.3	0.5-0.7	4.8-5	6-6.2	4.8-5
Date Sampled		11/08/2023	10/08/2023	10/08/2023	15/08/2023	16/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.04	<0.01	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.30	<0.01	<0.01	0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	0.01	0.04	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	0.28	<0.01	0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	91	92	95	91	90
Surrogate $^{13}C_2$ PFOA	%	97	97	95	96	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102	98	97	100	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	102	100	104	108
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	102	102	107	107
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	109	108	109	112	116
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	110	105	106	117	105
Total Positive PFHxS & PFOS	µg/L	0.34	<0.01	<0.01	0.01	<0.01
Total Positive PFOS & PFOA	µg/L	0.32	0.04	<0.01	0.01	<0.01
Total Positive PFAS	µg/L	0.35	0.32	<0.01	0.02	<0.01

PFAS in ASLP Short						
Our Reference		330992-A-171	330992-A-215	330992-A-218	330992-A-222	330992-A-224
Your Reference	UNITS	322C	329B	329B	329B	329B
Depth		5.8-6	0.1-0.2	1.5-1.6	4.3-4.5	5.2-5.4
Date Sampled		16/08/2023	14/08/2023	14/08/2023	14/08/2023	14/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01	0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.02	0.22	0.04	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	0.01	0.01	0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	94	95	90	89	93
Surrogate $^{13}C_2$ PFOA	%	98	96	96	99	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102	100	104	98	103
Extracted ISTD $^{13}C_4$ *PFOS*	%	104	108	114	110	109
Extracted ISTD $^{13}C_4$ *PFOA*	%	105	110	116	113	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	111	125	117	117	114
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	114	123	127	126	123
Total Positive PFHxS & PFOS	µg/L	<0.01	0.02	0.22	0.06	<0.01
Total Positive PFOS & PFOA	µg/L	<0.01	0.03	0.23	0.05	<0.01
Total Positive PFAS	µg/L	<0.01	0.03	0.23	0.07	<0.01

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-021	Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Method ID	Methodology Summary
Org-029A	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. TOPA analyses use a pre-spiked, labelled internal standard PFAS precursor to assess the oxidation efficiency. The efficiency of removal by oxidation is recorded in the report. Additionally, dilutions applied (if required) to ensure sufficient precursor oxidation are also recorded and are available on request. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	[NT]
Date Extracted	-			22/08/2023	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date Analysed	-			25/08/2023	[NT]	[NT]	[NT]	[NT]	25/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
bromodichloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromoform	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
styrene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-20	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	129	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d_8	%		Org-023	125	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			06/09/2023	[NT]	[NT]	[NT]	[NT]	06/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	72	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date extracted	-			08/09/2023	[NT]	[NT]	[NT]	[NT]	08/09/2023	[NT]
Date analysed	-			08/09/2023	[NT]	[NT]	[NT]	[NT]	08/09/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	89	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			04/09/2023	191	04/09/2023	04/09/2023		04/09/2023	[NT]
Date analysed	-			05/09/2023	191	05/09/2023	05/09/2023		05/09/2023	[NT]
Arsenic	mg/kg	4	Metals-020	<4	191	<4	<4	0	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	191	0.6	<0.4	40	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	191	230	140	49	108	[NT]
Copper	mg/kg	1	Metals-020	<1	191	20	12	50	106	[NT]
Lead	mg/kg	1	Metals-020	<1	191	1000	600	50	111	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	191	0.6	0.5	18	103	[NT]
Nickel	mg/kg	1	Metals-020	<1	191	4	3	29	101	[NT]
Zinc	mg/kg	1	Metals-020	<1	191	140	95	38	104	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	330992-A-200
Date prepared	-			04/09/2023	39	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Date analysed	-			04/09/2023	39	04/09/2023	04/09/2023		04/09/2023	04/09/2023
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	39	5.3	5.5	4	101	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	39	10	<10	0	104	92
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	39	28	20	33	114	100
Soluble Bicarb as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	39	94	84	11	[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	39	<50	<50	0	[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	39	<50	<50	0	[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	39	94	84	11	109	[NT]

QUALITY CONTROL: Acid Extractable Cations in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	330992-A-201
Date prepared	-			08/09/2023	39	25/08/2023	25/08/2023		08/09/2023	08/09/2023
Date analysed	-			08/09/2023	39	28/08/2023	28/08/2023		08/09/2023	08/09/2023
Calcium	mg/kg	10	Metals-020	<10	39	30	30	0	102	109
Potassium	mg/kg	10	Metals-020	<10	39	70	70	0	97	129
Magnesium	mg/kg	10	Metals-020	<10	39	140	130	7	105	113
Sodium	mg/kg	10	Metals-020	<10	39	30	30	0	89	96

QUALITY CONTROL: BTEX in Zero Headspace						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			08/09/2023	[NT]	[NT]	[NT]	[NT]	08/09/2023	[NT]
Date analysed	-			08/09/2023	[NT]	[NT]	[NT]	[NT]	08/09/2023	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	92	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate Toluene-d8	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: BTEX in Zero Headspace ASLP						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			04/09/2023	30	04/09/2023	04/09/2023		04/09/2023	[NT]
Date analysed	-			05/09/2023	30	05/09/2023	05/09/2023		05/09/2023	[NT]
Benzene	µg/L	1	Org-023	<1	30	<1	<1	0	115	[NT]
Toluene	µg/L	1	Org-023	<1	30	5	5	0	119	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	30	2	2	0	117	[NT]
m+p-xylene	µg/L	2	Org-023	<2	30	3	3	0	120	[NT]
o-xylene	µg/L	1	Org-023	<1	30	<1	<1	0	119	[NT]
Surrogate Dibromofluoromethane	%		Org-023	111	30	105	106	1	103	[NT]
Surrogate Toluene-d8	%		Org-023	101	30	104	103	1	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	30	98	98	0	102	[NT]

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			06/09/2023	[NT]	[NT]	[NT]	[NT]	06/09/2023	[NT]
Date analysed	-			07/09/2023	[NT]	[NT]	[NT]	[NT]	07/09/2023	[NT]
Naphthalene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	68	[NT]
Acenaphthylene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	69	[NT]
Fluorene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	64	[NT]
Phenanthrene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	70	[NT]
Anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	69	[NT]
Pyrene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	68	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	71	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	61	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	330992-A-146
Date extracted	-			07/09/2023	84	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Date analysed	-			07/09/2023	84	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Chromium	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	98	104
Lead	mg/L	0.03	Metals-020	<0.03	84	0.98	1.2	20	97	#
Mercury	mg/L	0.0005	Metals-021	<0.0005	[NT]	[NT]	[NT]	[NT]	103	##
Nickel	mg/L	0.02	Metals-020	<0.02	84	0.03	0.03	0	100	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	330992-A-261
Date extracted	-			[NT]	164	07/09/2023	07/09/2023		[NT]	07/09/2023
Date analysed	-			[NT]	164	07/09/2023	07/09/2023		[NT]	07/09/2023
Nickel	mg/L	0.02	Metals-020	[NT]	164	0.1	0.1	0	[NT]	[NT]
Chromium	mg/L	0.01	Metals-020	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]	95
Lead	mg/L	0.03	Metals-020	[NT]	246	2.5	3.3	28	[NT]	88
Mercury	mg/L	0.0005	Metals-021	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]	99

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	246	07/09/2023	07/09/2023		[NT]	[NT]
Date analysed	-			[NT]	246	07/09/2023	07/09/2023		[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			07/09/2023	[NT]	[NT]	[NT]	[NT]	07/09/2023	[NT]
Date analysed	-			07/09/2023	[NT]	[NT]	[NT]	[NT]	07/09/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	106	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	115	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	115	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	110	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	109	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: OCP in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			06/09/2023	182	06/09/2023	06/09/2023		06/09/2023	[NT]
Date analysed	-			07/09/2023	182	06/09/2023	06/09/2023		07/09/2023	[NT]
HCB	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	73	[NT]
gamma-BHC	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	74	[NT]
Heptachlor	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	70	[NT]
delta-BHC	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
Aldrin	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	73	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	64	[NT]
gamma-Chlordane	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-021	<0.2	182	1	1	0	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-021	<0.2	182	3.7	3.6	3	78	[NT]
Dieldrin	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	78	[NT]
Endrin	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	77	[NT]
pp-DDD	µg/L	0.2	Org-021	<0.2	182	2.4	2.4	0	71	[NT]
Endosulfan II	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-021	<0.2	182	2.3	2.4	4	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-021	<0.2	182	<0.2	<0.2	0	72	[NT]
Methoxychlor	µg/L	0.2	SEO-005	<0.2	182	<0.2	<0.2	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	110	182	98	90	9	75	[NT]

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	330992-A-183
Date extracted	-			07/09/2023	205	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Date analysed	-			07/09/2023	205	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Chromium	µg/L	1	Metals-022	<1	205	37	31	18	104	99
Lead	µg/L	1	Metals-022	<1	205	49	38	25	89	90
Mercury	µg/L	0.05	Metals-021	<0.05	205	0.90	0.77	16	102	100

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	229	07/09/2023	07/09/2023		[NT]	[NT]
Date analysed	-			[NT]	229	07/09/2023	07/09/2023		[NT]	[NT]
Chromium	µg/L	1	Metals-022	[NT]	229	72	70	3	[NT]	[NT]
Lead	µg/L	1	Metals-022	[NT]	229	150	140	7	[NT]	[NT]
Mercury	µg/L	0.05	Metals-021	[NT]	229	0.84	0.62	30	[NT]	[NT]

QUALITY CONTROL: PFAS in ASLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	330992-A-135
Date prepared	-			07/09/2023	116	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Date analysed	-			07/09/2023	116	07/09/2023	07/09/2023		07/09/2023	07/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029A	<0.01	116	<0.01	<0.01	0	103	112
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029A	<0.01	116	<0.01	0.01	0	102	106
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029A	<0.01	116	<0.01	<0.01	0	109	109
6:2 FTS	µg/L	0.01	Org-029A	<0.01	116	<0.01	<0.01	0	109	111
8:2 FTS	µg/L	0.02	Org-029A	<0.02	116	<0.02	<0.02	0	114	114
Surrogate $^{13}C_8$ PFOS	%		Org-029A	91	116	95	94	1	92	90
Surrogate $^{13}C_2$ PFOA	%		Org-029A	97	116	95	98	3	98	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029A	95	116	97	100	3	99	96
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029A	103	116	100	102	2	102	103
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029A	103	116	102	103	1	101	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029A	108	116	109	109	0	104	102
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029A	108	116	106	115	8	105	109

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

pH
Samples were out of the recommended holding time for this analysis.

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 330992-A-191 for Cr, Cu and Pb. Therefore a triplicate result has been issued as laboratory sample number 330992-A-288.

Metals in TCLP USEPA1311:
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- ## Low spike recovery was obtained for this sample. The sample was re-digested and re-spiked and the low recovery was confirmed. This is due to matrix interferences. However, an acceptable recovery was obtained for the LCS.

Metals-ASLP Neutral (ICP-MS) - The duplicate result for 330992-A-229 for Hg is greater than the acceptable RPD. RPD for duplicate results is accepted due to the inhomogeneous
nature of the sample/s.

BTEX in Zero Headspace ASLP - The PQL for sample 330992-A-200, 251,252 and 255 has been raised due to the high concentration of analytes in the samples, resulting in the samples requiring a dilution.

BTEX in Zero Headspace - The PQL for samples 330992-A-251,252 and 255 has been raised due to the high concentration of analytes in the samples, resulting in the samples requiring a dilution.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	330992-A
Date Sample Received	18/08/2023
Date Instructions Received	01/09/2023
Date Results Expected to be Reported	08/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Holding time exceedance: organic analysis

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
301-0.2-0.4																																			
301-0.5-0.7																																			
301-1-1.2																																			
301-1.8-2																																			
302-0.2-0.4																																			
302-0.5-0.7																																			
302-0.8-1																																			
302-1.3-1.5																																			
302-1.8-2																																			
302-2.3-2.5																																			
302-2.8-3																																			
302-3.8-4																																			
302-4.8-5																																			
302-5.8-6																																			
302-6.8-7																																			
302-7.8-8																																			
302-8.8-9																																			
302-9.8-10																																			
302-10.8-11																																			
302-11.5-11.6																																			

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Sample ID	On Hold
301-0.2-0.4	✓
301-0.5-0.7	✓
301-1-1.2	✓
301-1.8-2	✓
302-0.2-0.4	✓
302-0.5-0.7	✓
302-0.8-1	✓
302-1.3-1.5	✓
302-1.8-2	✓
302-2.3-2.5	✓
302-2.8-3	✓
302-3.8-4	✓
302-4.8-5	✓
302-5.8-6	✓
302-6.8-7	✓
302-7.8-8	✓
302-8.8-9	✓
302-9.8-10	✓
302-10.8-11	✓
302-11.5-11.6	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
303-0.2-0.4																																			
303-0.7-0.9																																			
303-1.2-1.4																																			
303-1.7-1.9																																			
303-2.1-2.3																																			
303-2.6-2.8																																			
303-3-3.2																																			
303-3.8-4																																			
303-4.8-5																																			
304-0.2-0.3								✓																											
304-0.3-0.5																																			
304-0.8-1																																			
304-1.3-1.5																																			
304-1.7-1.9																																			
304-2.3-2.5																																			
304-2.8-3																																			
304-3.8-4																																			
304-4.3-4.5																																			
304-4.8-5					✓	✓		✓																											
304-5.3-5.5																																			

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Sample ID	On Hold
303-0.2-0.4	✓
303-0.7-0.9	✓
303-1.2-1.4	✓
303-1.7-1.9	✓
303-2.1-2.3	✓
303-2.6-2.8	✓
303-3-3.2	✓
303-3.8-4	✓
303-4.8-5	✓
304-0.2-0.3	
304-0.3-0.5	✓
304-0.8-1	✓
304-1.3-1.5	✓
304-1.7-1.9	✓
304-2.3-2.5	✓
304-2.8-3	✓
304-3.8-4	✓
304-4.3-4.5	✓
304-4.8-5	
304-5.3-5.5	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
304-5.8-6																																			
306-0.2-0.3																																			
306-0.4-0.6																																			
306-0.8-1																																			
306-1.2-1.4																																			
306-1.8-2																																			
306-2.8-3																																			
306-3.8-4																																			
309-0.2-0.4																																			
309-0.5-0.7																																			
309-0.9-1.1																																			
309-1.2-1.4																																			
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309-6.8-7																																			
309-7.8-8																																			
310-0.2-0.4																																			

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Sample ID	On Hold
304-5.8-6	✓
306-0.2-0.3	✓
306-0.4-0.6	✓
306-0.8-1	✓
306-1.2-1.4	✓
306-1.8-2	✓
306-2.8-3	✓
306-3.8-4	✓
309-0.2-0.4	✓
309-0.5-0.7	✓
309-0.9-1.1	✓
309-1.2-1.4	✓
309-1.8-2	✓
309-2.8-3	✓
309-3.8-4	✓
309-4.8-5	✓
309-5.8-6	✓
309-6.8-7	✓
309-7.8-8	✓
310-0.2-0.4	✓

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310-0.5-0.7																																			
310-0.8-1																																			
310-1.2-1.4																																			
310-1.6-1.8																																			
310-2.6-2.8																																			
310-3.6-3.8																																			
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310-6.6-6.8																																			
310-7.6-7.8																																			
311-0.2-0.3																																			
311-0.5-0.7																																			
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311-5.4-5.6																																			
311-6.4-6.6																																			

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Sample ID	On Hold
310-0.5-0.7	✓
310-0.8-1	✓
310-1.2-1.4	✓
310-1.6-1.8	✓
310-2.6-2.8	✓
310-3.6-3.8	✓
310-4.6-4.8	✓
310-5.6-5.8	✓
310-6.6-6.8	✓
310-7.6-7.8	✓
311-0.2-0.3	✓
311-0.5-0.7	✓
311-1-1.2	✓
311-1.5-1.7	✓
311-2-2.2	✓
311-2.5-2.7	✓
311-3.4-3.6	✓
311-4.4-4.6	✓
311-5.4-5.6	✓
311-6.4-6.6	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
311-7.4-7.6																																			
311-8.4-8.6																																			
311-9.4-9.6																																			
315-0.2-0.3									✓																		✓		✓	✓	✓				✓
315-0.5-0.7																																			
315-0.8-1																																			
315-1.5-1.7																																			
315-1.8-2																																			
315-2.8-3																																			
315-3.8-4																																			
315-4.8-5																																			
315-5.3-5.5																																			
315-5.8-6																																			
315-6.3-6.5																																			
315-6.8-7																																			
315-7.8-8																																			
318-0.2-0.4																																			
318-0.7-0.9																																			
318-1-1.2																																			
318-1.5-1.7																																			

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Sample ID	On Hold
311-7.4-7.6	✓
311-8.4-8.6	✓
311-9.4-9.6	✓
315-0.2-0.3	
315-0.5-0.7	✓
315-0.8-1	✓
315-1.5-1.7	✓
315-1.8-2	✓
315-2.8-3	✓
315-3.8-4	✓
315-4.8-5	✓
315-5.3-5.5	✓
315-5.8-6	✓
315-6.3-6.5	✓
315-6.8-7	✓
315-7.8-8	✓
318-0.2-0.4	✓
318-0.7-0.9	✓
318-1-1.2	✓
318-1.5-1.7	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
318-2-2.2																																			
318-2.5-2.7																																			
318-3.5-3.7																																			
318-4.5-4.7																																			
318-4.8-5																																			
318-5.8-6																																			
318-6.8-7																																			
318-7.8-8																																			
319-0.25-0.35																																			
319-0.5-0.7									✓																					✓	✓			✓
319-1.1-1.3																																			
319-1.4-1.6																																			
319-1.9-2.1																																			
319-2.8-3																																			
319-3.8-4																																			
319-4.8-5																																✓			✓
319-5.8-6																																			
319-6.8-7																																			
319-7.8-8																																			
320A-0.15-0.25																																			

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Sample ID	On Hold
318-2-2.2	✓
318-2.5-2.7	✓
318-3.5-3.7	✓
318-4.5-4.7	✓
318-4.8-5	✓
318-5.8-6	✓
318-6.8-7	✓
318-7.8-8	✓
319-0.25-0.35	✓
319-0.5-0.7	
319-1.1-1.3	✓
319-1.4-1.6	✓
319-1.9-2.1	✓
319-2.8-3	✓
319-3.8-4	✓
319-4.8-5	
319-5.8-6	✓
319-6.8-7	✓
319-7.8-8	✓
320A-0.15-0.25	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
320A-0.5-0.6																																			
320A-0.9-1																																			
320B-0.2-0.4																																			
320B-0.5-0.7																																			
320B-0.8-1																																			
320B-1.3-1.5																																			
320B-1.8-2																																			
321-0.2-0.4																																			
321-0.5-0.7																																			
321-1-1.2																																			
321-2-2.2																																			
321-3-3.2																																			
321-4-4.2																																			
321-5-5.2																																			
321-6-6.2																																✓			✓
321-7-7.2																																			
321-8-8.2																																			
322-0.2-0.4									✓																			✓				✓		✓	
322-0.6-0.8																																			
322-1-1.2																																			

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Sample ID	On Hold
320A-0.5-0.6	✓
320A-0.9-1	✓
320B-0.2-0.4	✓
320B-0.5-0.7	✓
320B-0.8-1	✓
320B-1.3-1.5	✓
320B-1.8-2	✓
321-0.2-0.4	✓
321-0.5-0.7	✓
321-1-1.2	✓
321-2-2.2	✓
321-3-3.2	✓
321-4-4.2	✓
321-5-5.2	✓
321-6-6.2	
321-7-7.2	✓
321-8-8.2	✓
322-0.2-0.4	
322-0.6-0.8	✓
322-1-1.2	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
322-1.8-2																																			
322-2.3-2.5																																			
322-2.8-3																																			
322-3-3.2																																			
322-3.8-4																																			
322A-0.2-0.4									✓																	✓	✓	✓			✓		✓	
322A-0.6-0.8																																			
322A-1-1.2									✓																		✓								
322A-1.3-1.5																																			
322A-1.8-2																																			
322A-2.3-2.5																																			
322A-2.8-3																																			
322A-3.3-3.5																																			
322A-3.8-4																																			
322A-4.3-4.5																																			
322B-0.2-0.4									✓																		✓								
322B-0.5-0.7																																			
322B-1-1.2																																			
322B-1.5-1.7																																			
322B-2-2.2																																			

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Sample ID	On Hold
322-1.8-2	✓
322-2.3-2.5	✓
322-2.8-3	✓
322-3-3.2	✓
322-3.8-4	✓
322A-0.2-0.4	
322A-0.6-0.8	✓
322A-1-1.2	
322A-1.3-1.5	✓
322A-1.8-2	✓
322A-2.3-2.5	✓
322A-2.8-3	✓
322A-3.3-3.5	✓
322A-3.8-4	✓
322A-4.3-4.5	✓
322B-0.2-0.4	
322B-0.5-0.7	✓
322B-1-1.2	✓
322B-1.5-1.7	✓
322B-2-2.2	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
322B-3-3.2																																			
322B-3.8-4																																			
322C-0.2-0.4																																			
322C-0.6-0.8									✓																				✓						
322C-1.2-1.4																																			
322C-1.5-1.7																																			
322C-2.5-2.7																																			
322C-3.3-3.5																																			
322C-4.3-4.5																																			
322C-4.8-5																																✓			✓
322C-5.8-6																																✓			✓
322C-6.8-7																																			
322C-7.8-8																																			
322C-8.8-9																																			
322D-0.2-0.4									✓																			✓							
322D-0.7-0.9																																			
322D-1.2-1.4																																			
322D-1.7-1.9																																			
322D-2.2-2.4																																			
322D-2.6-2.8																																			

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Sample ID	On Hold
322B-3-3.2	✓
322B-3.8-4	✓
322C-0.2-0.4	✓
322C-0.6-0.8	
322C-1.2-1.4	✓
322C-1.5-1.7	✓
322C-2.5-2.7	✓
322C-3.3-3.5	✓
322C-4.3-4.5	✓
322C-4.8-5	
322C-5.8-6	
322C-6.8-7	✓
322C-7.8-8	✓
322C-8.8-9	✓
322D-0.2-0.4	
322D-0.7-0.9	✓
322D-1.2-1.4	✓
322D-1.7-1.9	✓
322D-2.2-2.4	✓
322D-2.6-2.8	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
322D-3.6-3.8																																			
328D-0.25-0.35		✓							✓																		✓	✓	✓	✓		✓	✓	✓	
328D-0.5-0.7									✓																		✓	✓	✓	✓		✓		✓	
328D-1-1.2																																			
328D-1.5-1.7																																			
328D-2-2.2																																			
328D-2.4-2.6																																			
328D-3-3.2																																			
329-0.1-0.3									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	
329-0.5-0.7									✓																		✓	✓	✓			✓		✓	
329-1-1.2				✓					✓																			✓							
329-1.3-1.5									✓																			✓				✓		✓	
329-1.8-2																																			
329-2.3-2.5																																			
329-2.8-3																																			
329-3.3-3.5																																			
329-3.8-4																																			
329-4.1-4.3																																			
329-4.6-4.8																																			
329-5-5.2		✓			✓	✓		✓																											

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Sample ID	On Hold
322D-3.6-3.8	✓
328D-0.25-0.35	
328D-0.5-0.7	
328D-1-1.2	✓
328D-1.5-1.7	✓
328D-2-2.2	✓
328D-2.4-2.6	✓
328D-3-3.2	✓
329-0.1-0.3	
329-0.5-0.7	
329-1-1.2	
329-1.3-1.5	
329-1.8-2	✓
329-2.3-2.5	✓
329-2.8-3	✓
329-3.3-3.5	✓
329-3.8-4	✓
329-4.1-4.3	✓
329-4.6-4.8	✓
329-5-5.2	

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
329-5.5-5.7					✓	✓		✓																											
329-6-6.2																																			
329-6.5-6.7																																			
329-6.8-7																																			
329A-0.1-0.3		✓							✓																	✓	✓	✓			✓		✓	
329A-0.5-0.7																																			
329A-0.8-1																																			
329A-1.3-1.5									✓																		✓	✓			✓		✓	
329A-1.8-2																																			
329A-2.3-2.5																																			
329A-2.8-3																																			
329A-3.3-3.5																																			
329A-3.8-4																																			
329A-4.5-4.7																																			
329B-0.1-0.2									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓	✓			✓
329B-0.5-0.7									✓																	✓	✓	✓			✓		✓	
329B-1-1.2																																			
329B-1.5-1.6									✓																		✓	✓		✓	✓		✓	✓
329B-2-2.2																																			
329B-2.5-2.7																																			

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Sample ID	On Hold
329-5.5-5.7	
329-6-6.2	✓
329-6.5-6.7	✓
329-6.8-7	✓
329A-0.1-0.3	
329A-0.5-0.7	✓
329A-0.8-1	✓
329A-1.3-1.5	
329A-1.8-2	✓
329A-2.3-2.5	✓
329A-2.8-3	✓
329A-3.3-3.5	✓
329A-3.8-4	✓
329A-4.5-4.7	✓
329B-0.1-0.2	
329B-0.5-0.7	
329B-1-1.2	✓
329B-1.5-1.6	
329B-2-2.2	✓
329B-2.5-2.7	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
329B-3.5-3.7																																			
329B-4.3-4.5																																✓			✓
329B-5-5.1																																			
329B-5.2-5.4																																✓			✓
329B-5.8-6																																			
329B-6.8-7																																			
329B-7.8-8																																			
329C-0.1-0.2																																			
329C-0.5-0.7									✓																	✓	✓	✓			✓		✓		
329C-1-1.2																																			
329C-1.5-1.7																																			
329C-1.9-2.1																																			
329C-2.3-2.5																																			
329C-2.8-3																																			
329C-3.3-3.5									✓																		✓	✓							
329C-3.8-4																																			
329C-4.1-4.3																																			
329C-4.6-4.8																																			
329C-5.1-5.3																																			
329C-5.6-5.8																																			

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Sample ID	On Hold
329B-3.5-3.7	✓
329B-4.3-4.5	
329B-5-5.1	✓
329B-5.2-5.4	
329B-5.8-6	✓
329B-6.8-7	✓
329B-7.8-8	✓
329C-0.1-0.2	✓
329C-0.5-0.7	
329C-1-1.2	✓
329C-1.5-1.7	✓
329C-1.9-2.1	✓
329C-2.3-2.5	✓
329C-2.8-3	✓
329C-3.3-3.5	
329C-3.8-4	✓
329C-4.1-4.3	✓
329C-4.6-4.8	✓
329C-5.1-5.3	✓
329C-5.6-5.8	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
329C-6.4-6.6																																			
329C-6.8-7																																			
329C-7.8-8																																			
329D-0.1-0.3									✓																	✓	✓	✓			✓		✓	
329D-0.5-0.7									✓																		✓	✓	✓		✓		✓	
329D-0.9-1.1									✓																		✓							
329D-1.4-1.6																																			
329D-1.9-2.1																																			
329D-2.4-2.6																																			
329D-2.9-3.1																																			
329D-3.4-3.6					✓	✓	✓	✓																											
329D-4-4.2					✓	✓	✓	✓																											
329D-4.5-4.7																																			
329D-5-5.2																																			
329D-5.5-5.7					✓	✓	✓	✓																											
329D-6-6.2					✓	✓		✓																											
329D-6.5-6.7	✓																																		
329D-6.9-7	✓																																		
330-0.1-0.3																																			
330-0.5-0.7																																			

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Sample ID	On Hold
329C-6.4-6.6	✓
329C-6.8-7	✓
329C-7.8-8	✓
329D-0.1-0.3	
329D-0.5-0.7	
329D-0.9-1.1	
329D-1.4-1.6	✓
329D-1.9-2.1	✓
329D-2.4-2.6	✓
329D-2.9-3.1	✓
329D-3.4-3.6	
329D-4-4.2	
329D-4.5-4.7	✓
329D-5-5.2	✓
329D-5.5-5.7	
329D-6-6.2	
329D-6.5-6.7	
329D-6.9-7	
330-0.1-0.3	✓
330-0.5-0.7	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
330-1-1.2			✓						✓																		✓	✓	✓			✓		✓	
330-1.5-1.7																																			
330-2-2.2									✓																		✓	✓	✓			✓	✓	✓	
BD1/20230810																																			
BD2/20230810		✓																																	
BD1/20230811																																			
BD2/20230811																																			
BD3/20230815																																			
BD1/20230816																																			
BD2/20230816																																			
BD3/20230816																																			
Trip Spike/20230810																																			
Trip Spike/20230814																																			
Trip Blank/20230810																																			
Trip Blank/20230814																																			
329/PACM1-Surface																																			
329C/PACM2-1																																			
321-2.2-2.4																																			
BD1/20230814																																			
310 - [TRIPLICATE]-0.2-0.4																																			

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Sample ID	On Hold
330-1-1.2	
330-1.5-1.7	✓
330-2-2.2	
BD1/20230810	✓
BD2/20230810	
BD1/20230811	✓
BD2/20230811	✓
BD3/20230815	✓
BD1/20230816	✓
BD2/20230816	✓
BD3/20230816	✓
Trip Spike/20230810	✓
Trip Spike/20230814	✓
Trip Blank/20230810	✓
Trip Blank/20230814	✓
329/PACM1-Surface	✓
329C/PACM2-1	✓
321-2.2-2.4	✓
BD1/20230814	✓
310 - [TRIPLICATE]-0.2-0.4	✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	Organochlorine Pesticides in soil	Acid Extractable metalsin soil	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	Naphthalene in TCLP	Acenaphthylene in TCLP	Acenaphthene in TCLP	Fluorene in TCLP	Phenanthrene in TCLP	Anthracene in TCLP	Fluoranthene in TCLP	Pyrene in TCLP	Benzo(a)anthracene in TCLP	Chrysene in TCLP	Benzo(bjk)fluoranthene in TCLP	Benzo(a)pyrene in TCLP	Indeno(1,2,3-c,d)pyrene - TCLP	Dibenzo(a,h)anthracene in TCLP	Benzo(g,h,i)perylene in TCLP	Total +vePAH's	Surrogate p-Terphenyl-d14	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short
322B - [TRIPLICATE]-0.2-0.4																																			
322C - [TRIPLICATE]-0.6-0.8																																			
328D - [TRIPLICATE]-0.25-0.35																																			
329 - [TRIPLICATE]-0.5-0.7																																			
329B - [TRIPLICATE]-1.5-1.6																																			
329C - [TRIPLICATE]-6.8-7																																			
329D - [TRIPLICATE]-0.5-0.7																																			

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Sample ID	On Hold
322B - [TRIPLICATE]-0.2-0.4	✓
322C - [TRIPLICATE]-0.6-0.8	✓
328D - [TRIPLICATE]-0.25-0.35	✓
329 - [TRIPLICATE]-0.5-0.7	✓
329B - [TRIPLICATE]-1.5-1.6	✓
329C - [TRIPLICATE]-6.8-7	✓
329D - [TRIPLICATE]-0.5-0.7	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 331534

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	225 Soil, 1 Material
Date samples received	25/08/2023
Date completed instructions received	28/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	04/09/2023
Date of Issue	04/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Lucy Zhu, Asbestos Supervisor
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By
Nancy Zhang, Laboratory Manager

Total PCBs in Soil			
Our Reference		331534-38	331534-204
Your Reference	UNITS	313	336
Depth		0.4-0.5	0.2-0.3
Date Sampled		23/08/23	24/08/23
Type of sample		Soil	Soil
Date extracted	-	29/08/2023	29/08/2023
Date analysed	-	04/09/2023	04/09/2023
Total PCB (Aroclor 1016-1260)	mg/kg	0.7	1.7
Surrogate TCMX	%	99	88

VOCs in soil						
Our Reference		331534-22	331534-31	331534-33	331534-37	331534-43
Your Reference	UNITS	308	312	312	312	313
Depth		9.8-10	4.8-5	6.8-7	10.8-11	4.3-4.5
Date Sampled		22/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	3
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-22	331534-31	331534-33	331534-37	331534-43
Your Reference	UNITS	308	312	312	312	313
Depth		9.8-10	4.8-5	6.8-7	10.8-11	4.3-4.5
Date Sampled		22/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	10
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	160
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	<1	<1	81
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	4
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	12
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	53
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1	<1	<1	170
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	3
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	3
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	15
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	103	106	105	106	100
Surrogate aaa-Trifluorotoluene	%	92	92	84	85	112
Surrogate Toluene-d_8	%	106	103	102	103	124
Surrogate 4-Bromofluorobenzene	%	101	94	94	96	114

VOCs in soil						
Our Reference		331534-44	331534-45	331534-46	331534-47	331534-49
Your Reference	UNITS	313	313	313	313	313
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	7.8-8
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	11	2	2	8	2
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-44	331534-45	331534-46	331534-47	331534-49
Your Reference	UNITS	313	313	313	313	313
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	7.8-8
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	38	23	31	77	6
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	250	95	150	380	13
styrene	mg/kg	3	1	2	4	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	110	41	60	160	5
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	7	3	5	10	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	24	9	13	29	1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	57	18	23	57	3
tert-butyl benzene	mg/kg	20	9	10	20	1
1,2,4-trimethyl benzene	mg/kg	190	51	68	190	9
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	4	1	2	4	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	3	<1	1	3	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	17	6	7	17	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	101	98	97	98	94
Surrogate aaa-Trifluorotoluene	%	105	101	99	103	93
Surrogate Toluene-d_8	%	110	106	106	110	109
Surrogate 4-Bromofluorobenzene	%	104	105	105	104	107

VOCs in soil						
Our Reference		331534-59	331534-60	331534-61	331534-63	331534-72
Your Reference	UNITS	314	314	314	314	316
Depth		5.3-5.5	5.8-6	6.3-6.5	7.3-7.5	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	1
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-59	331534-60	331534-61	331534-63	331534-72
Your Reference	UNITS	314	314	314	314	316
Depth		5.3-5.5	5.8-6	6.3-6.5	7.3-7.5	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	2	<1	39	20	5
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	6	<2	30	15	37
styrene	mg/kg	<1	<1	11	5	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	3	<1	16	8	33
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	1	2	1	5
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	2	5	13	7	12
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	9	<1	<1
1,3,5-trimethyl benzene	mg/kg	10	38	26	15	69
tert-butyl benzene	mg/kg	4	11	13	<1	13
1,2,4-trimethyl benzene	mg/kg	23	80	73	42	120
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	3	7	3	7	11
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	3	7	2	5	6
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	10	6	18
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	99	99	98	99	98
Surrogate aaa-Trifluorotoluene	%	99	105	98	92	103
Surrogate Toluene-d_8	%	112	108	108	107	116
Surrogate 4-Bromofluorobenzene	%	103	98	101	101	113

VOCs in soil						
Our Reference		331534-74	331534-101	331534-102	331534-120	331534-129
Your Reference	UNITS	316	323	323	325	326
Depth		6.8-7	2.1-2.3	2.5-2.7	6.8-7	4.3-4.5
Date Sampled		22/08/23	24/08/23	24/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	30/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	0.7	<0.5	<0.5	18
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-74	331534-101	331534-102	331534-120	331534-129
Your Reference	UNITS	316	323	323	325	326
Depth		6.8-7	2.1-2.3	2.5-2.7	6.8-7	4.3-4.5
Date Sampled		22/08/23	24/08/23	24/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	<1	<1	<1	28
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	140
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	6
o-Xylene	mg/kg	<1	<1	<1	<1	71
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	<1	<1	<1	16
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	<1	<1	<1	44
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1	<1	<1	170
tert-butyl benzene	mg/kg	<1	<1	<1	<1	79
1,2,4-trimethyl benzene	mg/kg	<1	1	<1	<1	520
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	5
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	5
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	14
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	3
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	92	96	95	98	103
Surrogate aaa-Trifluorotoluene	%	90	90	96	90	124
Surrogate Toluene-d_8	%	108	105	105	103	126
Surrogate 4-Bromofluorobenzene	%	109	101	100	101	118

VOCs in soil						
Our Reference		331534-130	331534-131	331534-132	331534-133	331534-134
Your Reference	UNITS	326	326	326	326	326
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	6.8-7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	2	0.3	0.4	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	41	230	57	56	28
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-130	331534-131	331534-132	331534-133	331534-134
Your Reference	UNITS	326	326	326	326	326
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	6.8-7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	41	150	46	20	11
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	200	670	210	67	34
styrene	mg/kg	<1	7	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	4	10	<1	2	<1
o-Xylene	mg/kg	110	380	110	34	18
1,2,3-trichloropropane	mg/kg	<1	3	<1	<1	<1
isopropylbenzene	mg/kg	23	71	14	7	4
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	61	200	40	17	9
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	210	620	130	47	27
tert-butyl benzene	mg/kg	96	210	27	17	11
1,2,4-trimethyl benzene	mg/kg	790	2,200	420	160	98
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	5	11	3	1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	5	11	3	1	<1
1,2-dichlorobenzene	mg/kg	<1	2	<1	<1	<1
n-butyl benzene	mg/kg	13	27	7	3	2
1,2-dibromo-3-chloropropane	mg/kg	3	7	2	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	99	90	90	87	88
Surrogate aaa-Trifluorotoluene	%	119	111	102	96	91
Surrogate Toluene-d_8	%	125	131	119	115	113
Surrogate 4-Bromofluorobenzene	%	119	123	117	112	110

VOCs in soil						
Our Reference		331534-135	331534-145	331534-147	331534-165	331534-193
Your Reference	UNITS	326	327	327	328A	328C
Depth		7.3-7.5	4.8-5	6.8-7	3.3-3.5	6.8-7
Date Sampled		21/08/23	18/08/23	18/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	32	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331534-135	331534-145	331534-147	331534-165	331534-193
Your Reference	UNITS	326	327	327	328A	328C
Depth		7.3-7.5	4.8-5	6.8-7	3.3-3.5	6.8-7
Date Sampled		21/08/23	18/08/23	18/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	13	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	42	<2	<2	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	22	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	5	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	12	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	34	<1	<1	<1	<1
tert-butyl benzene	mg/kg	13	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	130	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	2	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	88	93	94	95	101
Surrogate aaa-Trifluorotoluene	%	95	90	87	86	91
Surrogate Toluene-d_8	%	114	105	104	104	102
Surrogate 4-Bromofluorobenzene	%	110	106	105	103	98

VOCs in soil					
Our Reference		331534-201	331534-217	331534-218	331534-219
Your Reference	UNITS	335	BD2/20230822	BD1/20230823	BD6/20230824
Depth		4.7-4.9	-	-	-
Date Sampled		24/08/23	22/08/23	23/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil
Date Extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date Analysed	-	04/09/2023	31/08/2023	31/08/2023	31/08/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1
Toluene	mg/kg	<0.5	1	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1

VOCs in soil					
Our Reference		331534-201	331534-217	331534-218	331534-219
Your Reference	UNITS	335	BD2/20230822	BD1/20230823	BD6/20230824
Depth		4.7-4.9	-	-	-
Date Sampled		24/08/23	22/08/23	23/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	<1	6	<1	<1
bromoform	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	46	<2	<2
styrene	mg/kg	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	5	<1	<1
o-Xylene	mg/kg	<1	35	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	6	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	14	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	6	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	57	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	100	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	7	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	17	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	2	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	100	91	93	93
Surrogate aaa-Trifluorotoluene	%	91	113	92	95
Surrogate Toluene-d_8	%	101	133	105	103
Surrogate 4-Bromofluorobenzene	%	97	123	105	103

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-1	331534-3	331534-5	331534-7	331534-8
Your Reference	UNITS	305	305	305	305	305
Depth		0.2-0.3	1-1.2	2-2.2	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	98	92	93	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-9	331534-11	331534-13	331534-14	331534-17
Your Reference	UNITS	305	308	308	308	308
Depth		5.8-6	0.2-0.4	1-1.2	1.7-1.9	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	95	97	94	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-18	331534-19	331534-22	331534-23	331534-24
Your Reference	UNITS	308	308	308	308	312
Depth		5.8-6	6.8-7	9.8-10	10.8-11	0.15-0.25
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	31	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	31	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	91	92	90	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-25	331534-27	331534-28	331534-30	331534-31
Your Reference	UNITS	312	312	312	312	312
Depth		0.4-0.6	1.5-1.7	1.8-2	3.8-4	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	91	94	99	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-32	331534-33	331534-37	331534-38	331534-39
Your Reference	UNITS	312	312	312	313	313
Depth		5.8-6	6.8-7	10.8-11	0.4-0.5	0.8-1
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	84	85	99	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-40	331534-41	331534-42	331534-43	331534-44
Your Reference	UNITS	313	313	313	313	313
Depth		1.4-1.6	2.8-3	3.8-4	4.3-4.5	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	78	360	690
TRH C_6 - C_{10}	mg/kg	<25	<25	230	850	1,200
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	180	590	790
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	3	11
Ethylbenzene	mg/kg	<1	<1	<1	10	38
m+p-xylene	mg/kg	<2	<2	27	160	250
o-Xylene	mg/kg	<1	<1	20	81	110
Naphthalene	mg/kg	<1	<1	6	12	13
Total +ve Xylenes	mg/kg	<1	<1	46	240	360
Surrogate aaa-Trifluorotoluene	%	94	99	108	112	105

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-45	331534-46	331534-47	331534-49	331534-50
Your Reference	UNITS	313	313	313	313	313
Depth		5.3-5.5	5.8-6	6.3-6.5	7.8-8	8.8-9
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	180	440	890	48	120
TRH C_6 - C_{10}	mg/kg	300	700	1,500	87	230
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	140	460	870	61	160
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	2	2	8	2	4
Ethylbenzene	mg/kg	23	31	77	6	14
m+p-xylene	mg/kg	95	150	380	13	33
o-Xylene	mg/kg	41	60	160	5	14
Naphthalene	mg/kg	4	5	13	<1	3
Total +ve Xylenes	mg/kg	140	210	550	18	47
Surrogate aaa-Trifluorotoluene	%	101	99	103	93	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-51	331534-52	331534-54	331534-55	331534-58
Your Reference	UNITS	314	314	314	314	314
Depth		0.15-0.25	0.6-0.8	1.7-1.9	2-2.2	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	90	89	92	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-59	331534-60	331534-61	331534-62	331534-63
Your Reference	UNITS	314	314	314	314	314
Depth		5.3-5.5	5.8-6	6.3-6.5	6.8-7	7.3-7.5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	150	44	66
TRH C_6 - C_{10}	mg/kg	120	270	370	130	180
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	110	270	290	99	140
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	2	<1	39	13	20
m+p-xylene	mg/kg	6	<2	30	10	15
o-Xylene	mg/kg	3	<1	16	5	8
Naphthalene	mg/kg	26	140	86	29	56
Total +ve Xylenes	mg/kg	9	<1	46	15	22
Surrogate aaa-Trifluorotoluene	%	99	105	98	96	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-65	331534-66	331534-68	331534-71	331534-72
Your Reference	UNITS	316	316	316	316	316
Depth		0.2-0.4	0.5-0.7	1.4-1.6	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	440
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	1,100
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	980
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	1
Ethylbenzene	mg/kg	<1	<1	<1	<1	5
m+p-xylene	mg/kg	<2	<2	<2	<2	37
o-Xylene	mg/kg	<1	<1	<1	<1	33
Naphthalene	mg/kg	<1	<1	<1	<1	6
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	71
Surrogate aaa-Trifluorotoluene	%	83	88	92	91	103

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-74	331534-77	331534-78	331534-80	331534-81
Your Reference	UNITS	316	316	317	317	317
Depth		6.8-7	9.8-10	0.2-0.3	1-1.2	1.7-1.9
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	28	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	28	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	80	89	90	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-83	331534-84	331534-85	331534-88	331534-89
Your Reference	UNITS	317	320	320	320C	320C
Depth		3.8-4	0.1-0.3	0.4-0.6	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	18/08/2023	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	88	90	84	86

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-91	331534-92	331534-93	331534-94	331534-96
Your Reference	UNITS	320C	320D	320D	320D	320D
Depth		1.8-2	0-0.1	0.3-0.4	0.5-0.7	1.8-2
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	93	93	101	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-97	331534-101	331534-102	331534-104	331534-105
Your Reference	UNITS	323	323	323	323	323
Depth		0.2-0.4	2.1-2.3	2.5-2.7	3.7-3.9	4.7-4.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	33	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	2	0.7	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	1	<1	<1	<1	<1
m+p-xylene	mg/kg	8	<2	<2	<2	<2
o-Xylene	mg/kg	2	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	10	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	103	90	96	101	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-106	331534-107	331534-110	331534-111	331534-113
Your Reference	UNITS	324	324	324	325	325
Depth		0.15-0.25	0.5-0.7	1.8-2	0.2-0.4	0.8-1
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	96	96	88	96

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-117	331534-118	331534-120	331534-122	331534-123
Your Reference	UNITS	325	325	325	326	326
Depth		3.8-4	4.8-5	6.8-7	0.15-0.25	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/2023	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	84	90	85	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-124	331534-127	331534-128	331534-129	331534-130
Your Reference	UNITS	326	326	326	326	326
Depth		1-1.2	3.3-3.5	3.8-4	4.3-4.5	4.8-5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	370	480
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	980	1,200
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	720	830
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	18	41
Ethylbenzene	mg/kg	<1	<1	<1	28	41
m+p-xylene	mg/kg	<2	<2	<2	140	150
o-Xylene	mg/kg	<1	<1	<1	71	98
Naphthalene	mg/kg	<1	<1	<1	8	7
Total +ve Xylenes	mg/kg	<1	<1	<1	210	240
Surrogate aaa-Trifluorotoluene	%	90	94	97	124	119

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-131	331534-132	331534-133	331534-134	331534-135
Your Reference	UNITS	326	326	326	326	326
Depth		5.3-5.5	5.8-6	6.3-6.5	6.8-7	7.3-7.5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	2,300	430	280	170	200
TRH C_6 - C_{10}	mg/kg	6,300	940	590	350	430
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	4,900	520	420	260	320
Benzene	mg/kg	2	0.3	0.4	<0.2	0.2
Toluene	mg/kg	230	57	56	28	32
Ethylbenzene	mg/kg	150	46	20	11	13
m+p-xylene	mg/kg	670	210	67	34	42
o-Xylene	mg/kg	380	110	34	18	22
Naphthalene	mg/kg	10	3	1	1	1
Total +ve Xylenes	mg/kg	1,000	320	100	52	64
Surrogate aaa-Trifluorotoluene	%	111	102	96	91	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-136	331534-139	331534-140	331534-142	331534-145
Your Reference	UNITS	326	327	327	327	327
Depth		7.8-8	0.2-0.4	0.5-0.7	1.8-2	4.8-5
Date Sampled		21/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	52	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	37	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	2	<1	<1	<1	<1
m+p-xylene	mg/kg	5	<2	<2	<2	<2
o-Xylene	mg/kg	3	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	8	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	88	91	93	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-146	331534-147	331534-150	331534-151	331534-152
Your Reference	UNITS	327	327	328	328	328
Depth		5.8-6	6.8-7	0.1-0.3	0.4-0.6	0.8-1
Date Sampled		18/08/23	18/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	87	90	91	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-153	331534-156	331534-159	331534-160	331534-162
Your Reference	UNITS	328	328	328A	328A	328A
Depth		1.3-1.5	2.8-3	0.1-0.3	0.5-0.7	1.5-1.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	94	96	93	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-164	331534-165	331534-166	331534-167	331534-169
Your Reference	UNITS	328A	328A	328A	328A	328B
Depth		2.4-2.6	3.3-3.5	3.8-4	4.1-4.3	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	2	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	86	92	91	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-170	331534-172	331534-174	331534-175	331534-176
Your Reference	UNITS	328B	328B	328B	328B	328B
Depth		0.5-0.7	1.5-1.7	2.7-2.9	3.1-3.3	3.5-3.6
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	92	90	92	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-178	331534-181	331534-182	331534-183	331534-185
Your Reference	UNITS	328B	328B	328C	328C	328C
Depth		4.8-5	7.8-8	0.1-0.3	0.5-0.7	1.5-1.7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	89	94	92	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-187	331534-188	331534-191	331534-193	331534-194
Your Reference	UNITS	328C	328C	328C	328C	328C
Depth		2.6-2.8	3.2-3.4	4.8-5	6.8-7	7.8-8
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	4	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	4	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	99	93	91	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-195	331534-196	331534-197	331534-200	331534-201
Your Reference	UNITS	335	335	335	335	335
Depth		0.2-0.4	0.5-0.7	1.1-1.3	3.7-3.9	4.7-4.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	99	97	99	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-202	331534-204	331534-205	331534-206	331534-208
Your Reference	UNITS	335	336	336	336	336
Depth		5.7-5.9	0.2-0.3	0.4-0.5	0.6-0.7	1.1-1.2
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	04/09/2023	04/09/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	98	96	95	95

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-210	331534-214	331534-215	331534-216	331534-217
Your Reference	UNITS	336	336	336	BD1/20230821	BD2/20230822
Depth		1.4-1.5	2.4-2.6	2.7-2.9	-	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	370
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	1,000
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	920
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	1
Ethylbenzene	mg/kg	<1	<1	<1	<1	6
m+p-xylene	mg/kg	<2	<2	<2	<2	46
o-Xylene	mg/kg	<1	<1	<1	<1	35
Naphthalene	mg/kg	<1	<1	<1	<1	8
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	81
Surrogate aaa-Trifluorotoluene	%	94	95	94	99	113

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331534-218	331534-219	331534-221	331534-222	331534-223
Your Reference	UNITS	BD1/20230823	BD6/20230824	Trip Spike/20230818	Trip Spike/20230821	Trip Blank/20230818
Depth		-	-	-	-	-
Date Sampled		23/08/23	24/08/23	18/08/23	21/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	<25	<25	[NA]	[NA]	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	[NA]	[NA]	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	[NA]	[NA]	<25
Benzene	mg/kg	<0.2	<0.2	100%	99%	<0.2
Toluene	mg/kg	<0.5	<0.5	100%	99%	<0.5
Ethylbenzene	mg/kg	<1	<1	100%	100%	<1
m+p-xylene	mg/kg	<2	<2	100%	100%	<2
o-Xylene	mg/kg	<1	<1	100%	100%	<1
Naphthalene	mg/kg	<1	<1	[NA]	[NA]	<1
Total +ve Xylenes	mg/kg	<1	<1	[NA]	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	92	95	101	100	98

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		331534-224
Your Reference	UNITS	Trip Blank/20230821
Depth		-
Date Sampled		21/08/23
Type of sample		Soil
Date extracted	-	29/08/2023
Date analysed	-	31/08/2023
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	98

svTRH (C10-C40) in Soil						
Our Reference		331534-1	331534-3	331534-5	331534-7	331534-8
Your Reference	UNITS	305	305	305	305	305
Depth		0.2-0.3	1-1.2	2-2.2	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	83	84	83	87

svTRH (C10-C40) in Soil						
Our Reference		331534-9	331534-11	331534-13	331534-14	331534-17
Your Reference	UNITS	305	308	308	308	308
Depth		5.8-6	0.2-0.4	1-1.2	1.7-1.9	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	83	84	84	79

svTRH (C10-C40) in Soil						
Our Reference		331534-18	331534-19	331534-22	331534-23	331534-24
Your Reference	UNITS	308	308	308	308	312
Depth		5.8-6	6.8-7	9.8-10	10.8-11	0.15-0.25
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	80	82	84	80	85

svTRH (C10-C40) in Soil						
Our Reference		331534-25	331534-27	331534-28	331534-30	331534-31
Your Reference	UNITS	312	312	312	312	312
Depth		0.4-0.6	1.5-1.7	1.8-2	3.8-4	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	82	85	81	82

svTRH (C10-C40) in Soil						
Our Reference		331534-32	331534-33	331534-37	331534-38	331534-39
Your Reference	UNITS	312	312	312	313	313
Depth		5.8-6	6.8-7	10.8-11	0.4-0.5	0.8-1
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	83	82	81	82

svTRH (C10-C40) in Soil						
Our Reference		331534-40	331534-41	331534-42	331534-43	331534-44
Your Reference	UNITS	313	313	313	313	313
Depth		1.4-1.6	2.8-3	3.8-4	4.3-4.5	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	880	1,300	1,700
TRH C_{15} - C_{28}	mg/kg	<100	<100	220	110	220
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	1,100	1,400	2,000
TRH >C_{10} -C_{16}	mg/kg	<50	<50	720	740	890
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	710	730	880
TRH >C_{16} -C_{34}	mg/kg	<100	<100	190	100	210
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	910	840	1,100
Surrogate o-Terphenyl	%	81	83	88	84	82

svTRH (C10-C40) in Soil						
Our Reference		331534-45	331534-46	331534-47	331534-49	331534-50
Your Reference	UNITS	313	313	313	313	313
Depth		5.3-5.5	5.8-6	6.3-6.5	7.8-8	8.8-9
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	360	770	890	<50	180
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	360	770	890	<50	180
TRH >C_{10} -C_{16}	mg/kg	220	390	460	<50	100
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	220	390	450	<50	98
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	220	390	460	<50	100
Surrogate o-Terphenyl	%	82	81	80	78	79

svTRH (C10-C40) in Soil						
Our Reference		331534-51	331534-52	331534-54	331534-55	331534-58
Your Reference	UNITS	314	314	314	314	314
Depth		0.15-0.25	0.6-0.8	1.7-1.9	2-2.2	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	82	99	99	97	99

svTRH (C10-C40) in Soil						
Our Reference		331534-59	331534-60	331534-61	331534-62	331534-63
Your Reference	UNITS	314	314	314	314	314
Depth		5.3-5.5	5.8-6	6.3-6.5	6.8-7	7.3-7.5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	460	1,400	1,300	380	620
TRH C_{15} - C_{28}	mg/kg	500	690	290	110	180
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	960	2,100	1,600	490	800
TRH >C_{10} -C_{16}	mg/kg	380	950	800	240	390
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	350	820	720	210	340
TRH >C_{16} -C_{34}	mg/kg	500	690	280	100	180
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	880	1,600	1,100	350	580
Surrogate o-Terphenyl	%	93	95	98	100	98

svTRH (C10-C40) in Soil						
Our Reference		331534-65	331534-66	331534-68	331534-71	331534-72
Your Reference	UNITS	316	316	316	316	316
Depth		0.2-0.4	0.5-0.7	1.4-1.6	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	5,500
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	19,000
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	400
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	25,000
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	3,500
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	3,500
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	19,000
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	150
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	23,000
Surrogate o-Terphenyl	%	97	96	93	95	104

svTRH (C10-C40) in Soil						
Our Reference		331534-74	331534-77	331534-78	331534-80	331534-81
Your Reference	UNITS	316	316	317	317	317
Depth		6.8-7	9.8-10	0.2-0.3	1-1.2	1.7-1.9
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	240	130	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	240	130	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	270	160	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	270	160	<50	<50	<50
Surrogate o-Terphenyl	%	94	92	87	92	92

svTRH (C10-C40) in Soil						
Our Reference		331534-83	331534-84	331534-85	331534-88	331534-89
Your Reference	UNITS	317	320	320	320C	320C
Depth		3.8-4	0.1-0.3	0.4-0.6	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	18/08/2023	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	120	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	280	850	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	730	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	280	1,700	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	60	140	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	60	140	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	300	1,400	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	430	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	360	1,900	<50	<50	<50
Surrogate o-Terphenyl	%	94	114	90	87	79

svTRH (C10-C40) in Soil						
Our Reference		331534-91	331534-92	331534-93	331534-94	331534-96
Your Reference	UNITS	320C	320D	320D	320D	320D
Depth		1.8-2	0-0.1	0.3-0.4	0.5-0.7	1.8-2
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	01/09/2023	01/09/2023	30/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	75	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	1,200	340	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	1,500	400	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	2,800	740	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	89	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	89	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	2,300	640	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	880	240	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	3,300	880	<50	<50
Surrogate o-Terphenyl	%	77	#	96	79	82

svTRH (C10-C40) in Soil						
Our Reference		331534-97	331534-101	331534-102	331534-104	331534-105
Your Reference	UNITS	323	323	323	323	323
Depth		0.2-0.4	2.1-2.3	2.5-2.7	3.7-3.9	4.7-4.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	110	90	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	120	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	220	90	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	85	80	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	85	80	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	120	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	210	80	<50	<50	<50
Surrogate o-Terphenyl	%	89	82	81	78	86

svTRH (C10-C40) in Soil						
Our Reference		331534-106	331534-107	331534-110	331534-111	331534-113
Your Reference	UNITS	324	324	324	325	325
Depth		0.15-0.25	0.5-0.7	1.8-2	0.2-0.4	0.8-1
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	01/09/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	150	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	150	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	190	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	190	<50
Surrogate o-Terphenyl	%	88	83	81	91	80

svTRH (C10-C40) in Soil						
Our Reference		331534-117	331534-118	331534-120	331534-122	331534-123
Your Reference	UNITS	325	325	325	326	326
Depth		3.8-4	4.8-5	6.8-7	0.15-0.25	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/2023	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	160	230
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	160	230
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	170	240
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	170	240
Surrogate o-Terphenyl	%	77	81	79	86	89

svTRH (C10-C40) in Soil						
Our Reference		331534-124	331534-127	331534-128	331534-129	331534-130
Your Reference	UNITS	326	326	326	326	326
Depth		1-1.2	3.3-3.5	3.8-4	4.3-4.5	4.8-5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	2,200	4,400
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	130	170
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	2,400	4,600
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	830	1,300
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	820	1,300
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	140
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	830	1,400
Surrogate o-Terphenyl	%	81	86	82	87	95

svTRH (C10-C40) in Soil						
Our Reference		331534-131	331534-132	331534-133	331534-134	331534-135
Your Reference	UNITS	326	326	326	326	326
Depth		5.3-5.5	5.8-6	6.3-6.5	6.8-7	7.3-7.5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	6,600	770	630	250	370
TRH C_{15} - C_{28}	mg/kg	250	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	6,900	770	630	250	370
TRH >C_{10} -C_{16}	mg/kg	1,600	240	200	88	130
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	1,600	240	200	87	120
TRH >C_{16} -C_{34}	mg/kg	190	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	1,800	240	200	90	130
Surrogate o-Terphenyl	%	97	88	86	86	84

svTRH (C10-C40) in Soil						
Our Reference		331534-136	331534-139	331534-140	331534-142	331534-145
Your Reference	UNITS	326	327	327	327	327
Depth		7.8-8	0.2-0.4	0.5-0.7	1.8-2	4.8-5
Date Sampled		21/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	81	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	80	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	83	78	81	78

svTRH (C10-C40) in Soil						
Our Reference		331534-146	331534-147	331534-150	331534-151	331534-152
Your Reference	UNITS	327	327	328	328	328
Depth		5.8-6	6.8-7	0.1-0.3	0.4-0.6	0.8-1
Date Sampled		18/08/23	18/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	80	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	170	110	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	110	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	360	110	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	77	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	77	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	220	150	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	300	150	<50
Surrogate o-Terphenyl	%	79	72	104	97	94

svTRH (C10-C40) in Soil						
Our Reference		331534-153	331534-156	331534-159	331534-160	331534-162
Your Reference	UNITS	328	328	328A	328A	328A
Depth		1.3-1.5	2.8-3	0.1-0.3	0.5-0.7	1.5-1.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	01/09/2023	31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	96	<50	61
TRH C_{15} - C_{28}	mg/kg	<100	<100	190	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	120	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	410	<50	60
TRH >C_{10} -C_{16}	mg/kg	<50	<50	88	<50	60
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	88	<50	60
TRH >C_{16} -C_{34}	mg/kg	<100	<100	270	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	360	<50	60
Surrogate o-Terphenyl	%	96	94	94	95	95

svTRH (C10-C40) in Soil						
Our Reference		331534-164	331534-165	331534-166	331534-167	331534-169
Your Reference	UNITS	328A	328A	328A	328A	328B
Depth		2.4-2.6	3.3-3.5	3.8-4	4.1-4.3	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	31/08/2023	31/08/2023	31/08/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	320	<50	<50	<50	74
TRH C_{15} - C_{28}	mg/kg	160	<100	<100	<100	210
TRH C_{29} - C_{36}	mg/kg	100	<100	<100	<100	140
Total +ve TRH (C10-C36)	mg/kg	590	<50	<50	<50	420
TRH >C_{10} -C_{16}	mg/kg	320	<50	<50	<50	72
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	320	<50	<50	<50	72
TRH >C_{16} -C_{34}	mg/kg	210	<100	<100	<100	300
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	530	<50	<50	<50	370
Surrogate o-Terphenyl	%	94	97	92	95	94

svTRH (C10-C40) in Soil						
Our Reference		331534-170	331534-172	331534-174	331534-175	331534-176
Your Reference	UNITS	328B	328B	328B	328B	328B
Depth		0.5-0.7	1.5-1.7	2.7-2.9	3.1-3.3	3.5-3.6
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	93	96	97	96	94

svTRH (C10-C40) in Soil						
Our Reference		331534-178	331534-181	331534-182	331534-183	331534-185
Your Reference	UNITS	328B	328B	328C	328C	328C
Depth		4.8-5	7.8-8	0.1-0.3	0.5-0.7	1.5-1.7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	110	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	280	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	150	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	540	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	100	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	100	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	370	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	470	<50	<50
Surrogate o-Terphenyl	%	93	94	109	91	97

svTRH (C10-C40) in Soil						
Our Reference		331534-187	331534-188	331534-191	331534-193	331534-194
Your Reference	UNITS	328C	328C	328C	328C	328C
Depth		2.6-2.8	3.2-3.4	4.8-5	6.8-7	7.8-8
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	93	92	90	91	93

svTRH (C10-C40) in Soil						
Our Reference		331534-195	331534-196	331534-197	331534-200	331534-201
Your Reference	UNITS	335	335	335	335	335
Depth		0.2-0.4	0.5-0.7	1.1-1.3	3.7-3.9	4.7-4.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	94	92	92	90	89

svTRH (C10-C40) in Soil						
Our Reference		331534-202	331534-204	331534-205	331534-206	331534-208
Your Reference	UNITS	335	336	336	336	336
Depth		5.7-5.9	0.2-0.3	0.4-0.5	0.6-0.7	1.1-1.2
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	90	88	88	86	88

svTRH (C10-C40) in Soil						
Our Reference		331534-210	331534-214	331534-215	331534-216	331534-217
Your Reference	UNITS	336	336	336	BD1/20230821	BD2/20230822
Depth		1.4-1.5	2.4-2.6	2.7-2.9	-	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	4,400
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	20,000
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	240
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	24,000
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	2,600
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	2,600
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	20,000
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	22,000
Surrogate o-Terphenyl	%	90	91	88	90	100

svTRH (C10-C40) in Soil			
Our Reference		331534-218	331534-219
Your Reference	UNITS	BD1/20230823	BD6/20230824
Depth		-	-
Date Sampled		23/08/23	24/08/23
Type of sample		Soil	Soil
Date extracted	-	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	200	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	200	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	210	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	210	<50
Surrogate o-Terphenyl	%	96	99

sTPH in Soil (C10-C40)-Silica						
Our Reference		331534-43	331534-45	331534-46	331534-60	331534-61
Your Reference	UNITS	313	313	313	314	314
Depth		4.3-4.5	5.3-5.5	5.8-6	5.8-6	6.3-6.5
Date Sampled		23/08/23	23/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TPH C_{10} - C_{14}	mg/kg	690	210	580	740	350
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	390	130	300	480	190
TPH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	85	83	84	80	86

sTPH in Soil (C10-C40)-Silica					
Our Reference		331534-129	331534-131	331534-132	331534-134
Your Reference	UNITS	326	326	326	326
Depth		4.3-4.5	5.3-5.5	5.8-6	6.8-7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
TPH C_{10} - C_{14}	mg/kg	940	3,800	160	130
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	460	970	88	<50
TPH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Surrogate o-Terphenyl	%	84	85	84	87

PAHs in Soil						
Our Reference		331534-1	331534-3	331534-5	331534-8	331534-11
Your Reference	UNITS	305	305	305	305	308
Depth		0.2-0.3	1-1.2	2-2.2	4.8-5	0.2-0.4
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	113	113	115	109	108

PAHs in Soil						
Our Reference		331534-13	331534-14	331534-17	331534-19	331534-23
Your Reference	UNITS	308	308	308	308	308
Depth		1-1.2	1.7-1.9	4.8-5	6.8-7	10.8-11
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	109	104	106	107

PAHs in Soil						
Our Reference		331534-24	331534-25	331534-27	331534-28	331534-31
Your Reference	UNITS	312	312	312	312	312
Depth		0.15-0.25	0.4-0.6	1.5-1.7	1.8-2	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	105	105	109	107

PAHs in Soil						
Our Reference		331534-33	331534-37	331534-38	331534-39	331534-40
Your Reference	UNITS	312	312	313	313	313
Depth		6.8-7	10.8-11	0.4-0.5	0.8-1	1.4-1.6
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	108	109	112	110	109

PAHs in Soil						
Our Reference		331534-41	331534-43	331534-44	331534-46	331534-49
Your Reference	UNITS	313	313	313	313	313
Depth		2.8-3	4.3-4.5	4.8-5	5.8-6	7.8-8
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	9.3	9.3	2.9	0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	9.3	9.3	2.9	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	108	102	102	102

PAHs in Soil						
Our Reference		331534-51	331534-52	331534-54	331534-55	331534-59
Your Reference	UNITS	314	314	314	314	314
Depth		0.15-0.25	0.6-0.8	1.7-1.9	2-2.2	5.3-5.5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	103	104	102	102

PAHs in Soil						
Our Reference		331534-63	331534-65	331534-66	331534-68	331534-71
Your Reference	UNITS	314	316	316	316	316
Depth		7.3-7.5	0.2-0.4	0.5-0.7	1.4-1.6	3.8-4
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	105	102	110	104	101

PAHs in Soil						
Our Reference		331534-72	331534-74	331534-77	331534-78	331534-80
Your Reference	UNITS	316	316	316	317	317
Depth		4.8-5	6.8-7	9.8-10	0.2-0.3	1-1.2
Date Sampled		22/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	3.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	3.3	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	90	93	98	98	101

PAHs in Soil						
Our Reference		331534-81	331534-84	331534-85	331534-88	331534-89
Your Reference	UNITS	317	320	320	320C	320C
Depth		1.7-1.9	0.1-0.3	0.4-0.6	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	18/08/2023	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.6	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	1	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.3	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	4.6	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.6	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	100	94	99	103	100

PAHs in Soil						
Our Reference		331534-91	331534-92	331534-93	331534-94	331534-96
Your Reference	UNITS	320C	320D	320D	320D	320D
Depth		1.8-2	0-0.1	0.3-0.4	0.5-0.7	1.8-2
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.06	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.64	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	100	88	95	97	97

PAHs in Soil						
Our Reference		331534-97	331534-101	331534-102	331534-105	331534-106
Your Reference	UNITS	323	323	323	323	324
Depth		0.2-0.4	2.1-2.3	2.5-2.7	4.7-4.9	0.15-0.25
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Naphthalene	mg/kg	0.4	0.4	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.4	0.4	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	93	95	96	99	93

PAHs in Soil						
Our Reference		331534-107	331534-110	331534-111	331534-113	331534-118
Your Reference	UNITS	324	324	325	325	325
Depth		0.5-0.7	1.8-2	0.2-0.4	0.8-1	4.8-5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Naphthalene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.6	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.4	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0.7	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	0.9	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	1	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.87	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.4	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.6	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	6.9	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	1.2	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	1.2	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	1.2	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	100	97	97	100	100

PAHs in Soil						
Our Reference		331534-120	331534-122	331534-123	331534-124	331534-127
Your Reference	UNITS	325	326	326	326	326
Depth		6.8-7	0.15-0.25	0.5-0.7	1-1.2	3.3-3.5
Date Sampled		21/08/23	21/08/2023	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Naphthalene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.09	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.3	0.4	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	90	95	98	100

PAHs in Soil						
Our Reference		331534-129	331534-131	331534-134	331534-139	331534-140
Your Reference	UNITS	326	326	326	327	327
Depth		4.3-4.5	5.3-5.5	6.8-7	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Naphthalene	mg/kg	4.4	6.3	0.4	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	4.4	6.3	0.4	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	100	102	101	102	106

PAHs in Soil						
Our Reference		331534-142	331534-145	331534-147	331534-150	331534-151
Your Reference	UNITS	327	327	327	328	328
Depth		1.8-2	4.8-5	6.8-7	0.1-0.3	0.4-0.6
Date Sampled		18/08/23	18/08/23	18/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	01/09/2023	31/08/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	103	104	101	104	104

PAHs in Soil						
Our Reference		331534-152	331534-153	331534-156	331534-159	331534-160
Your Reference	UNITS	328	328	328	328A	328A
Depth		0.8-1	1.3-1.5	2.8-3	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.1	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	102	102	100	100

PAHs in Soil						
Our Reference		331534-162	331534-164	331534-165	331534-167	331534-169
Your Reference	UNITS	328A	328A	328A	328A	328B
Depth		1.5-1.7	2.4-2.6	3.3-3.5	4.1-4.3	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	0.7	0.1	<0.1	0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	0.4
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Total +ve PAH's	mg/kg	<0.05	0.72	0.1	<0.05	2.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	96	97	101	97

PAHs in Soil						
Our Reference		331534-170	331534-174	331534-175	331534-178	331534-181
Your Reference	UNITS	328B	328B	328B	328B	328B
Depth		0.5-0.7	2.7-2.9	3.1-3.3	4.8-5	7.8-8
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.4	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.2	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	1.6	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	101	98	97	97

PAHs in Soil						
Our Reference		331534-182	331534-183	331534-187	331534-188	331534-191
Your Reference	UNITS	328C	328C	328C	328C	328C
Depth		0.1-0.3	0.5-0.7	2.6-2.8	3.2-3.4	4.8-5
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.3	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.4	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	0.3	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	0.5	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.3	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	2.4	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	101	96	98	95

PAHs in Soil						
Our Reference		331534-193	331534-195	331534-196	331534-197	331534-200
Your Reference	UNITS	328C	335	335	335	335
Depth		6.8-7	0.2-0.4	0.5-0.7	1.1-1.3	3.7-3.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.9	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.9	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.8	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.57	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	5.4	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	0.7	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	0.8	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	0.8	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	94	96	97	99	99

PAHs in Soil						
Our Reference		331534-201	331534-204	331534-205	331534-206	331534-208
Your Reference	UNITS	335	336	336	336	336
Depth		4.7-4.9	0.2-0.3	0.4-0.5	0.6-0.7	1.1-1.2
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	90	99	96	97	99

PAHs in Soil						
Our Reference		331534-210	331534-214	331534-215	331534-216	331534-217
Your Reference	UNITS	336	336	336	BD1/20230821	BD2/20230822
Depth		1.4-1.5	2.4-2.6	2.7-2.9	-	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	3.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	3.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	99	101	101	129

PAHs in Soil			
Our Reference		331534-218	331534-219
Your Reference	UNITS	BD1/20230823	BD6/20230824
Depth		-	-
Date Sampled		23/08/23	24/08/23
Type of sample		Soil	Soil
Date extracted	-	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	90	95

Organochlorine Pesticides in soil						
Our Reference		331534-1	331534-11	331534-24	331534-38	331534-51
Your Reference	UNITS	305	308	312	313	314
Depth		0.2-0.3	0.2-0.4	0.15-0.25	0.4-0.5	0.15-0.25
Date Sampled		22/08/23	22/08/23	23/08/23	23/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	98	99	99	96

Organochlorine Pesticides in soil						
Our Reference		331534-65	331534-78	331534-80	331534-84	331534-93
Your Reference	UNITS	316	317	317	320	320D
Depth		0.2-0.4	0.2-0.3	1-1.2	0.1-0.3	0.3-0.4
Date Sampled		22/08/23	21/08/23	21/08/23	18/08/2023	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	01/09/2023	01/09/2023	01/09/2023	31/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	2.8	0.2
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	1.8	1.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	27	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	32	1.4
Surrogate TCMX	%	98	96	100	96	91

Organochlorine Pesticides in soil						
Our Reference		331534-97	331534-98	331534-101	331534-106	331534-107
Your Reference	UNITS	323	323	323	324	324
Depth		0.2-0.4	0.7-0.9	2.1-2.3	0.15-0.25	0.5-0.7
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	4.1	<0.1	<0.1	7.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	9.7	<0.1	0.1	3.4	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	0.4	<0.1	<0.1	0.9	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	14	<0.1	0.1	11	<0.1
Surrogate TCMX	%	91	91	92	91	94

Organochlorine Pesticides in soil						
Our Reference		331534-110	331534-111	331534-113	331534-122	331534-123
Your Reference	UNITS	324	325	325	326	326
Depth		1.8-2	0.2-0.4	0.8-1	0.15-0.25	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/2023	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	11	<0.1	12	13
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	13	<0.1	12	7.3
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	58	<0.1	46	61
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	82	<0.1	70	82
Surrogate TCMX	%	93	90	95	89	90

Organochlorine Pesticides in soil						
Our Reference		331534-139	331534-140	331534-150	331534-151	331534-152
Your Reference	UNITS	327	327	328	328	328
Depth		0.2-0.4	0.5-0.7	0.1-0.3	0.4-0.6	0.8-1
Date Sampled		18/08/23	18/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	01/09/2023	31/08/2023	31/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	0.4	<0.1	0.2	0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	0.2	<0.1	0.2	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	0.5	<0.1	0.4	0.1	<0.1
Surrogate TCMX	%	95	99	98	94	94

Organochlorine Pesticides in soil						
Our Reference		331534-159	331534-160	331534-169	331534-182	331534-183
Your Reference	UNITS	328A	328A	328B	328C	328C
Depth		0.1-0.3	0.5-0.7	0.1-0.3	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	1	<0.1	0.8	1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	0.7	<0.1	1.2	0.6	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	1.7	<0.1	1.0	0.4	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	3.4	<0.1	3.0	2.0	<0.1
Surrogate TCMX	%	96	94	92	95	89

Organochlorine Pesticides in soil					
Our Reference		331534-195	331534-204	331534-210	331534-234
Your Reference	UNITS	335	336	336	326 - [TRIPLICATE]
Depth		0.2-0.4	0.2-0.3	1.4-1.5	0.15-0.25
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	31/08/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	14
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	7.8
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	25
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	46
Surrogate TCMX	%	88	88	85	94

Organophosphorus Pesticides in Soil						
Our Reference		331534-1	331534-11	331534-24	331534-38	331534-78
Your Reference	UNITS	305	308	312	313	317
Depth		0.2-0.3	0.2-0.4	0.15-0.25	0.4-0.5	0.2-0.3
Date Sampled		22/08/23	22/08/23	23/08/23	23/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	98	99	99	96

Organophosphorus Pesticides in Soil						
Our Reference		331534-93	331534-97	331534-101	331534-106	331534-107
Your Reference	UNITS	320D	323	323	324	324
Depth		0.3-0.4	0.2-0.4	2.1-2.3	0.15-0.25	0.5-0.7
Date Sampled		18/08/23	24/08/23	24/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	91	91	92	91	94

Organophosphorus Pesticides in Soil						
Our Reference		331534-111	331534-122	331534-123	331534-139	331534-150
Your Reference	UNITS	325	326	326	327	328
Depth		0.2-0.4	0.15-0.25	0.5-0.7	0.2-0.4	0.1-0.3
Date Sampled		21/08/23	21/08/2023	21/08/23	18/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	90	89	90	95	98

Organophosphorus Pesticides in Soil						
Our Reference		331534-151	331534-152	331534-159	331534-160	331534-182
Your Reference	UNITS	328	328	328A	328A	328C
Depth		0.4-0.6	0.8-1	0.1-0.3	0.5-0.7	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	01/09/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	94	96	94	91

Organophosphorus Pesticides in Soil				
Our Reference		331534-195	331534-204	331534-210
Your Reference	UNITS	335	336	336
Depth		0.2-0.4	0.2-0.3	1.4-1.5
Date Sampled		24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	88	85

PCBs in Soil						
Our Reference		331534-1	331534-11	331534-24	331534-51	331534-65
Your Reference	UNITS	305	308	312	314	316
Depth		0.2-0.3	0.2-0.4	0.15-0.25	0.15-0.25	0.2-0.4
Date Sampled		22/08/23	22/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	98	99	96	98

PCBs in Soil						
Our Reference		331534-78	331534-80	331534-84	331534-93	331534-97
Your Reference	UNITS	317	317	320	320D	323
Depth		0.2-0.3	1-1.2	0.1-0.3	0.3-0.4	0.2-0.4
Date Sampled		21/08/23	21/08/23	18/08/2023	18/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	31/08/2023	31/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	96	100	96	91	91

PCBs in Soil						
Our Reference		331534-101	331534-106	331534-107	331534-110	331534-111
Your Reference	UNITS	323	324	324	324	325
Depth		2.1-2.3	0.15-0.25	0.5-0.7	1.8-2	0.2-0.4
Date Sampled		24/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	91	94	93	90

PCBs in Soil						
Our Reference		331534-113	331534-122	331534-123	331534-139	331534-140
Your Reference	UNITS	325	326	326	327	327
Depth		0.8-1	0.15-0.25	0.5-0.7	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	21/08/2023	21/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	95	89	90	95	99

PCBs in Soil						
Our Reference		331534-150	331534-151	331534-152	331534-159	331534-160
Your Reference	UNITS	328	328	328	328A	328A
Depth		0.1-0.3	0.4-0.6	0.8-1	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	31/08/2023	31/08/2023	31/08/2023	01/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	98	94	94	96	94

PCBs in Soil						
Our Reference		331534-169	331534-182	331534-183	331534-195	331534-210
Your Reference	UNITS	328B	328C	328C	335	336
Depth		0.1-0.3	0.1-0.3	0.5-0.7	0.2-0.4	1.4-1.5
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	92	91	89	88	85

Acid Extractable metals in soil						
Our Reference		331534-1	331534-3	331534-5	331534-8	331534-11
Your Reference	UNITS	305	305	305	305	308
Depth		0.2-0.3	1-1.2	2-2.2	4.8-5	0.2-0.4
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	<1	3	1	1	3
Copper	mg/kg	<1	<1	<1	<1	49
Lead	mg/kg	<1	1	<1	<1	4
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	<1	13
Zinc	mg/kg	3	3	3	4	14

Acid Extractable metals in soil						
Our Reference		331534-13	331534-14	331534-17	331534-19	331534-23
Your Reference	UNITS	308	308	308	308	308
Depth		1-1.2	1.7-1.9	4.8-5	6.8-7	10.8-11
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	4	2	1	<1	<1
Copper	mg/kg	3	<1	<1	<1	<1
Lead	mg/kg	16	<1	<1	<1	<1
Mercury	mg/kg	0.5	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	<1	<1	<1
Zinc	mg/kg	13	2	3	2	3

Acid Extractable metals in soil						
Our Reference		331534-24	331534-25	331534-27	331534-28	331534-31
Your Reference	UNITS	312	312	312	312	312
Depth		0.15-0.25	0.4-0.6	1.5-1.7	1.8-2	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	14	1	6	2	2
Copper	mg/kg	27	<1	<1	<1	<1
Lead	mg/kg	54	1	5	2	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	37	2	<1	1	<1
Zinc	mg/kg	67	2	6	7	4

Acid Extractable metals in soil						
Our Reference		331534-33	331534-37	331534-38	331534-39	331534-40
Your Reference	UNITS	312	312	313	313	313
Depth		6.8-7	10.8-11	0.4-0.5	0.8-1	1.4-1.6
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	<1	2	3	2	3
Copper	mg/kg	<1	<1	33	<1	<1
Lead	mg/kg	<1	<1	44	2	2
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	5	<1	2
Zinc	mg/kg	2	3	45	11	6

Acid Extractable metals in soil						
Our Reference		331534-41	331534-43	331534-44	331534-46	331534-49
Your Reference	UNITS	313	313	313	313	313
Depth		2.8-3	4.3-4.5	4.8-5	5.8-6	7.8-8
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	1	1	2
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	2	<1	<1	<1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	<1	<1	<1
Zinc	mg/kg	6	2	3	3	3

Acid Extractable metals in soil						
Our Reference		331534-51	331534-52	331534-54	331534-55	331534-59
Your Reference	UNITS	314	314	314	314	314
Depth		0.15-0.25	0.6-0.8	1.7-1.9	2-2.2	5.3-5.5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	3	2	2	1	2
Copper	mg/kg	52	<1	<1	<1	<1
Lead	mg/kg	12	2	1	<1	<1
Mercury	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	<1	<1	<1	<1
Zinc	mg/kg	94	4	2	1	2

Acid Extractable metals in soil						
Our Reference		331534-63	331534-65	331534-66	331534-68	331534-71
Your Reference	UNITS	314	316	316	316	316
Depth		7.3-7.5	0.2-0.4	0.5-0.7	1.4-1.6	3.8-4
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	3	2	2	1
Copper	mg/kg	<1	13	<1	<1	<1
Lead	mg/kg	<1	11	1	1	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	4	<1	<1	<1
Zinc	mg/kg	2	22	3	2	2

Acid Extractable metals in soil						
Our Reference		331534-72	331534-74	331534-77	331534-78	331534-80
Your Reference	UNITS	316	316	316	317	317
Depth		4.8-5	6.8-7	9.8-10	0.2-0.3	1-1.2
Date Sampled		22/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	12	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	6	6	4
Copper	mg/kg	<1	<1	3	7	<1
Lead	mg/kg	1	<1	4	29	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	2	3	2
Zinc	mg/kg	2	2	2	33	11

Acid Extractable metals in soil						
Our Reference		331534-81	331534-84	331534-85	331534-88	331534-89
Your Reference	UNITS	317	320	320	320C	320C
Depth		1.7-1.9	0.1-0.3	0.4-0.6	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	18/08/2023	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	6	<4	<4	<4
Cadmium	mg/kg	<0.4	4.4	<0.4	<0.4	<0.4
Chromium	mg/kg	3	420	4	81	1
Copper	mg/kg	<1	84	<1	8	<1
Lead	mg/kg	7	4,800	14	1,800	4
Mercury	mg/kg	<0.1	41	0.2	<0.1	<0.1
Nickel	mg/kg	2	110	5	12	1
Zinc	mg/kg	3	910	36	35	5

Acid Extractable metals in soil						
Our Reference		331534-91	331534-92	331534-93	331534-94	331534-96
Your Reference	UNITS	320C	320D	320D	320D	320D
Depth		1.8-2	0-0.1	0.3-0.4	0.5-0.7	1.8-2
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	6	<4	<4	<4
Cadmium	mg/kg	<0.4	2	<0.4	<0.4	<0.4
Chromium	mg/kg	1	410	140	2	2
Copper	mg/kg	<1	160	17	<1	<1
Lead	mg/kg	<1	1,600	690	2	<1
Mercury	mg/kg	<0.1	20	1.7	<0.1	<0.1
Nickel	mg/kg	2	96	13	<1	1
Zinc	mg/kg	8	1,000	130	2	5

Acid Extractable metals in soil						
Our Reference		331534-97	331534-101	331534-102	331534-105	331534-106
Your Reference	UNITS	323	323	323	323	324
Depth		0.2-0.4	2.1-2.3	2.5-2.7	4.7-4.9	0.15-0.25
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	0.5	<0.4	<0.4	<0.4	1
Chromium	mg/kg	22	3	3	2	16
Copper	mg/kg	47	2	<1	<1	68
Lead	mg/kg	150	10	2	1	110
Mercury	mg/kg	3.9	0.3	<0.1	<0.1	80
Nickel	mg/kg	11	2	1	<1	13
Zinc	mg/kg	45	12	10	4	190

Acid Extractable metals in soil						
Our Reference		331534-107	331534-110	331534-111	331534-113	331534-118
Your Reference	UNITS	324	324	325	325	325
Depth		0.5-0.7	1.8-2	0.2-0.4	0.8-1	4.8-5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	0.9	<0.4	<0.4
Chromium	mg/kg	2	2	13	1	2
Copper	mg/kg	1	<1	50	<1	<1
Lead	mg/kg	3	<1	100	<1	<1
Mercury	mg/kg	4.4	<0.1	0.7	<0.1	<0.1
Nickel	mg/kg	1	<1	12	<1	<1
Zinc	mg/kg	41	1	110	1	10

Acid Extractable metals in soil						
Our Reference		331534-120	331534-122	331534-123	331534-124	331534-127
Your Reference	UNITS	325	326	326	326	326
Depth		6.8-7	0.15-0.25	0.5-0.7	1-1.2	3.3-3.5
Date Sampled		21/08/23	21/08/2023	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	1	<0.4	<0.4	<0.4
Chromium	mg/kg	3	17	2	2	1
Copper	mg/kg	<1	42	14	<1	<1
Lead	mg/kg	<1	180	11	4	6
Mercury	mg/kg	<0.1	1.5	0.2	<0.1	<0.1
Nickel	mg/kg	<1	12	<1	<1	<1
Zinc	mg/kg	2	200	160	2	3

Acid Extractable metals in soil						
Our Reference		331534-129	331534-131	331534-134	331534-139	331534-140
Your Reference	UNITS	326	326	326	327	327
Depth		4.3-4.5	5.3-5.5	6.8-7	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.5	<0.4
Chromium	mg/kg	3	2	10	17	6
Copper	mg/kg	<1	<1	<1	160	<1
Lead	mg/kg	4	5	3	150	3
Mercury	mg/kg	0.2	<0.1	<0.1	3.0	<0.1
Nickel	mg/kg	1	<1	<1	21	1
Zinc	mg/kg	7	8	5	240	16

Acid Extractable metals in soil						
Our Reference		331534-142	331534-145	331534-147	331534-150	331534-151
Your Reference	UNITS	327	327	327	328	328
Depth		1.8-2	4.8-5	6.8-7	0.1-0.3	0.4-0.6
Date Sampled		18/08/23	18/08/23	18/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	1	<0.4
Chromium	mg/kg	<1	1	4	94	14
Copper	mg/kg	<1	<1	<1	230	7
Lead	mg/kg	1	<1	1	1,600	510
Mercury	mg/kg	<0.1	<0.1	<0.1	12	5.2
Nickel	mg/kg	<1	<1	<1	16	<1
Zinc	mg/kg	3	4	3	1,700	40

Acid Extractable metals in soil						
Our Reference		331534-152	331534-153	331534-156	331534-159	331534-160
Your Reference	UNITS	328	328	328	328A	328A
Depth		0.8-1	1.3-1.5	2.8-3	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	2	<0.4
Chromium	mg/kg	12	18	4	130	10
Copper	mg/kg	5	11	<1	480	19
Lead	mg/kg	150	96	6	2,300	340
Mercury	mg/kg	4.7	1.6	0.2	26	2.5
Nickel	mg/kg	<1	<1	<1	13	<1
Zinc	mg/kg	28	45	28	2,300	20

Acid Extractable metals in soil						
Our Reference		331534-162	331534-164	331534-165	331534-167	331534-169
Your Reference	UNITS	328A	328A	328A	328A	328B
Depth		1.5-1.7	2.4-2.6	3.3-3.5	4.1-4.3	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	0.7
Chromium	mg/kg	18	20	23	7	72
Copper	mg/kg	21	4	<1	<1	91
Lead	mg/kg	170	36	4	3	2,300
Mercury	mg/kg	5.5	1.1	<0.1	<0.1	5.8
Nickel	mg/kg	<1	<1	2	1	6
Zinc	mg/kg	38	29	15	13	890

Acid Extractable metals in soil						
Our Reference		331534-170	331534-174	331534-175	331534-178	331534-181
Your Reference	UNITS	328B	328B	328B	328B	328B
Depth		0.5-0.7	2.7-2.9	3.1-3.3	4.8-5	7.8-8
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	16	<4	<4	<4
Cadmium	mg/kg	<0.4	0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	6	91	2	4	22
Copper	mg/kg	6	37	<1	<1	11
Lead	mg/kg	32	180	11	3	110
Mercury	mg/kg	1.0	0.5	0.1	<0.1	0.7
Nickel	mg/kg	<1	5	<1	1	2
Zinc	mg/kg	38	190	7	17	150

Acid Extractable metals in soil						
Our Reference		331534-182	331534-183	331534-187	331534-188	331534-191
Your Reference	UNITS	328C	328C	328C	328C	328C
Depth		0.1-0.3	0.5-0.7	2.6-2.8	3.2-3.4	4.8-5
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	12	<4	84	<4	<4
Cadmium	mg/kg	15	<0.4	1	<0.4	<0.4
Chromium	mg/kg	190	12	120	15	4
Copper	mg/kg	1,800	22	120	<1	<1
Lead	mg/kg	5,700	3,200	230	3	1
Mercury	mg/kg	19	3.2	1.5	<0.1	<0.1
Nickel	mg/kg	89	1	25	2	1
Zinc	mg/kg	25,000	69	970	63	37

Acid Extractable metals in soil						
Our Reference		331534-193	331534-195	331534-196	331534-197	331534-200
Your Reference	UNITS	328C	335	335	335	335
Depth		6.8-7	0.2-0.4	0.5-0.7	1.1-1.3	3.7-3.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	2	4	1
Copper	mg/kg	<1	21	<1	<1	<1
Lead	mg/kg	4	13	3	9	1
Mercury	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	4	<1	<1	<1
Zinc	mg/kg	7	15	6	6	3

Acid Extractable metals in soil						
Our Reference		331534-201	331534-204	331534-205	331534-206	331534-208
Your Reference	UNITS	335	336	336	336	336
Depth		4.7-4.9	0.2-0.3	0.4-0.5	0.6-0.7	1.1-1.2
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	0.8	<0.4	<0.4	<0.4
Chromium	mg/kg	2	17	2	2	2
Copper	mg/kg	<1	13	<1	<1	<1
Lead	mg/kg	<1	150	4	2	7
Mercury	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	3	<1	<1	<1
Zinc	mg/kg	3	100	4	2	8

Acid Extractable metals in soil						
Our Reference		331534-210	331534-214	331534-215	331534-216	331534-217
Your Reference	UNITS	336	336	336	BD1/20230821	BD2/20230822
Depth		1.4-1.5	2.4-2.6	2.7-2.9	-	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	3	2	2	2
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	3	2	1	<1	1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	1	<1	<1
Zinc	mg/kg	5	4	2	9	3

Acid Extractable metals in soil						
Our Reference		331534-218	331534-219	331534-227	331534-228	331534-229
Your Reference	UNITS	BD1/20230823	BD6/20230824	312 - [TRIPLICATE]	316 - [TRIPLICATE]	328 - [TRIPLICATE]
Depth		-	-	0.15-0.25	0.2-0.4	0.1-0.3
Date Sampled		23/08/23	24/08/23	23/08/23	22/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	0.4	<0.4	<0.4	<0.4	2
Chromium	mg/kg	2	1	16	3	88
Copper	mg/kg	<1	<1	28	13	260
Lead	mg/kg	1	<1	40	13	2,200
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	15
Nickel	mg/kg	1	<1	42	4	18
Zinc	mg/kg	2	3	54	28	2,400

Acid Extractable metals in soil					
Our Reference		331534-230	331534-231	331534-232	331534-233
Your Reference	UNITS	328A - [TRIPLICATE]	335 - [TRIPLICATE]	336 - [TRIPLICATE]	320D - [TRIPLICATE]
Depth		0.1-0.3	0.2-0.4	0.2-0.3	0-0.1
Date Sampled		21/08/23	24/08/23	24/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Arsenic	mg/kg	<4	<4	<4	5
Cadmium	mg/kg	2	<0.4	0.7	1
Chromium	mg/kg	120	3	20	370
Copper	mg/kg	890	17	20	100
Lead	mg/kg	2,100	27	170	1,500
Mercury	mg/kg	19	0.2	0.1	11
Nickel	mg/kg	17	3	5	73
Zinc	mg/kg	2,700	73	130	770

Misc Soil - Inorg						
Our Reference		331534-1	331534-8	331534-11	331534-24	331534-27
Your Reference	UNITS	305	305	308	312	312
Depth		0.2-0.3	4.8-5	0.2-0.4	0.15-0.25	1.5-1.7
Date Sampled		22/08/23	22/08/23	22/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-31	331534-38	331534-39	331534-44	331534-46
Your Reference	UNITS	312	313	313	313	313
Depth		4.8-5	0.4-0.5	0.8-1	4.8-5	5.8-6
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-72	331534-78	331534-93	331534-97	331534-101
Your Reference	UNITS	316	317	320D	323	323
Depth		4.8-5	0.2-0.3	0.3-0.4	0.2-0.4	2.1-2.3
Date Sampled		22/08/23	21/08/23	18/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	31/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	66	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-106	331534-107	331534-111	331534-122	331534-123
Your Reference	UNITS	324	324	325	326	326
Depth		0.15-0.25	0.5-0.7	0.2-0.4	0.15-0.25	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/2023	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-124	331534-129	331534-131	331534-134	331534-139
Your Reference	UNITS	326	326	326	326	327
Depth		1-1.2	4.3-4.5	5.3-5.5	6.8-7	0.2-0.4
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-150	331534-151	331534-152	331534-159	331534-160
Your Reference	UNITS	328	328	328	328A	328A
Depth		0.1-0.3	0.4-0.6	0.8-1	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-175	331534-178	331534-182	331534-191	331534-195
Your Reference	UNITS	328B	328B	328C	328C	335
Depth		3.1-3.3	4.8-5	0.1-0.3	4.8-5	0.2-0.4
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-197	331534-201	331534-204	331534-206	331534-208
Your Reference	UNITS	335	335	336	336	336
Depth		1.1-1.3	4.7-4.9	0.2-0.3	0.6-0.7	1.1-1.2
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-210	331534-214	331534-217	331534-218	331534-219
Your Reference	UNITS	336	336	BD2/20230822	BD1/20230823	BD6/20230824
Depth		1.4-1.5	2.4-2.6	-	-	-
Date Sampled		24/08/23	24/08/23	22/08/23	23/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	31/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	31/08/2023	29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	8	<5	<5

Moisture						
Our Reference		331534-1	331534-3	331534-5	331534-7	331534-8
Your Reference	UNITS	305	305	305	305	305
Depth		0.2-0.3	1-1.2	2-2.2	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	2.6	4.9	3.9	5.1	21

Moisture						
Our Reference		331534-9	331534-11	331534-13	331534-14	331534-17
Your Reference	UNITS	305	308	308	308	308
Depth		5.8-6	0.2-0.4	1-1.2	1.7-1.9	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	19	14	2.4	3.7	14

Moisture						
Our Reference		331534-18	331534-19	331534-22	331534-23	331534-24
Your Reference	UNITS	308	308	308	308	312
Depth		5.8-6	6.8-7	9.8-10	10.8-11	0.15-0.25
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	17	18	20	17	22

Moisture						
Our Reference		331534-25	331534-27	331534-28	331534-30	331534-31
Your Reference	UNITS	312	312	312	312	312
Depth		0.4-0.6	1.5-1.7	1.8-2	3.8-4	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	9.4	18	10	3.6	18

Moisture						
Our Reference		331534-32	331534-33	331534-37	331534-38	331534-39
Your Reference	UNITS	312	312	312	313	313
Depth		5.8-6	6.8-7	10.8-11	0.4-0.5	0.8-1
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	14	20	20	4.1	4.0

Moisture						
Our Reference		331534-40	331534-41	331534-42	331534-43	331534-44
Your Reference	UNITS	313	313	313	313	313
Depth		1.4-1.6	2.8-3	3.8-4	4.3-4.5	4.8-5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	3.9	1.8	2.3	0.4	15

Moisture						
Our Reference		331534-45	331534-46	331534-47	331534-49	331534-50
Your Reference	UNITS	313	313	313	313	313
Depth		5.3-5.5	5.8-6	6.3-6.5	7.8-8	8.8-9
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	15	16	14	19	18

Moisture						
Our Reference		331534-51	331534-52	331534-54	331534-55	331534-58
Your Reference	UNITS	314	314	314	314	314
Depth		0.15-0.25	0.6-0.8	1.7-1.9	2-2.2	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	4.6	6.2	4.2	6.1	9.8

Moisture						
Our Reference		331534-59	331534-60	331534-61	331534-62	331534-63
Your Reference	UNITS	314	314	314	314	314
Depth		5.3-5.5	5.8-6	6.3-6.5	6.8-7	7.3-7.5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	13	14	18	18	16

Moisture						
Our Reference		331534-65	331534-66	331534-68	331534-71	331534-72
Your Reference	UNITS	316	316	316	316	316
Depth		0.2-0.4	0.5-0.7	1.4-1.6	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	21	1.9	1	2.6	9.7

Moisture						
Our Reference		331534-74	331534-77	331534-78	331534-80	331534-81
Your Reference	UNITS	316	316	317	317	317
Depth		6.8-7	9.8-10	0.2-0.3	1-1.2	1.7-1.9
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	16	41	4.6	2.9	3.2

Moisture						
Our Reference		331534-83	331534-84	331534-85	331534-88	331534-89
Your Reference	UNITS	317	320	320	320C	320C
Depth		3.8-4	0.1-0.3	0.4-0.6	0.2-0.4	0.5-0.7
Date Sampled		21/08/23	18/08/2023	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	14	18	7.7	6.9	4.8

Moisture						
Our Reference		331534-91	331534-92	331534-93	331534-94	331534-96
Your Reference	UNITS	320C	320D	320D	320D	320D
Depth		1.8-2	0-0.1	0.3-0.4	0.5-0.7	1.8-2
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	5.7	14	3.9	1.5	4.1

Moisture						
Our Reference		331534-97	331534-98	331534-101	331534-102	331534-104
Your Reference	UNITS	323	323	323	323	323
Depth		0.2-0.4	0.7-0.9	2.1-2.3	2.5-2.7	3.7-3.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	6.9	6.5	4.8	6.4	2.1

Moisture						
Our Reference		331534-105	331534-106	331534-107	331534-110	331534-111
Your Reference	UNITS	323	324	324	324	325
Depth		4.7-4.9	0.15-0.25	0.5-0.7	1.8-2	0.2-0.4
Date Sampled		24/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	6.6	7.4	6.2	4.6	10

Moisture						
Our Reference		331534-113	331534-117	331534-118	331534-120	331534-122
Your Reference	UNITS	325	325	325	325	326
Depth		0.8-1	3.8-4	4.8-5	6.8-7	0.15-0.25
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	3.5	8.5	9.6	18	7.2

Moisture						
Our Reference		331534-123	331534-124	331534-127	331534-128	331534-129
Your Reference	UNITS	326	326	326	326	326
Depth		0.5-0.7	1-1.2	3.3-3.5	3.8-4	4.3-4.5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	11	6.9	7.2	11	6.8

Moisture						
Our Reference		331534-130	331534-131	331534-132	331534-133	331534-134
Your Reference	UNITS	326	326	326	326	326
Depth		4.8-5	5.3-5.5	5.8-6	6.3-6.5	6.8-7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	5.5	10	15	18	17

Moisture						
Our Reference		331534-135	331534-136	331534-139	331534-140	331534-142
Your Reference	UNITS	326	326	327	327	327
Depth		7.3-7.5	7.8-8	0.2-0.4	0.5-0.7	1.8-2
Date Sampled		21/08/23	21/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	17	17	10	7.1	1.5

Moisture						
Our Reference		331534-145	331534-146	331534-147	331534-150	331534-151
Your Reference	UNITS	327	327	327	328	328
Depth		4.8-5	5.8-6	6.8-7	0.1-0.3	0.4-0.6
Date Sampled		18/08/23	18/08/23	18/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	2.4	18	17	4.1	4.8

Moisture						
Our Reference		331534-152	331534-153	331534-156	331534-159	331534-160
Your Reference	UNITS	328	328	328	328A	328A
Depth		0.8-1	1.3-1.5	2.8-3	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	4.4	6.8	4.0	5.6	4.1

Moisture						
Our Reference		331534-162	331534-164	331534-165	331534-166	331534-167
Your Reference	UNITS	328A	328A	328A	328A	328A
Depth		1.5-1.7	2.4-2.6	3.3-3.5	3.8-4	4.1-4.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	7.4	8.3	18	5.9	4.7

Moisture						
Our Reference		331534-169	331534-170	331534-172	331534-174	331534-175
Your Reference	UNITS	328B	328B	328B	328B	328B
Depth		0.1-0.3	0.5-0.7	1.5-1.7	2.7-2.9	3.1-3.3
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	10	3.2	8.8	27	11

Moisture						
Our Reference		331534-176	331534-178	331534-181	331534-182	331534-183
Your Reference	UNITS	328B	328B	328B	328C	328C
Depth		3.5-3.6	4.8-5	7.8-8	0.1-0.3	0.5-0.7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	23	9.9	18	6.4	4.1

Moisture						
Our Reference		331534-185	331534-187	331534-188	331534-191	331534-193
Your Reference	UNITS	328C	328C	328C	328C	328C
Depth		1.5-1.7	2.6-2.8	3.2-3.4	4.8-5	6.8-7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	5.7	22	8.4	8.1	16

Moisture						
Our Reference		331534-194	331534-195	331534-196	331534-197	331534-200
Your Reference	UNITS	328C	335	335	335	335
Depth		7.8-8	0.2-0.4	0.5-0.7	1.1-1.3	3.7-3.9
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	17	30	3.0	8.7	3.0

Moisture						
Our Reference		331534-201	331534-202	331534-204	331534-205	331534-206
Your Reference	UNITS	335	335	336	336	336
Depth		4.7-4.9	5.7-5.9	0.2-0.3	0.4-0.5	0.6-0.7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	17	18	5.3	3.8	5.2

Moisture						
Our Reference		331534-208	331534-210	331534-214	331534-215	331534-216
Your Reference	UNITS	336	336	336	336	BD1/20230821
Depth		1.1-1.2	1.4-1.5	2.4-2.6	2.7-2.9	-
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Moisture	%	5.4	5.4	11	6.0	3.1

Moisture				
Our Reference		331534-217	331534-218	331534-219
Your Reference	UNITS	BD2/20230822	BD1/20230823	BD6/20230824
Depth		-	-	-
Date Sampled		22/08/23	23/08/23	24/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023
Moisture	%	3.8	11	3.9

Asbestos ID - soils NEPM						
Our Reference		331534-1	331534-3	331534-11	331534-13	331534-24
Your Reference	UNITS	305	305	308	308	312
Depth		0.2-0.3	1-1.2	0.2-0.4	1-1.2	0.15-0.25
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	725.79	274.04	460.67	193.24	248.18
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Grey sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	Chrysotile
ACM >7mm Estimation*	g	–	–	–	–	0.0057
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-25	331534-38	331534-40	331534-51	331534-52
Your Reference	UNITS	312	313	313	314	314
Depth		0.4-0.6	0.4-0.5	1.4-1.6	0.15-0.25	0.6-0.8
Date Sampled		23/08/23	23/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	380.96	569.41	333.79	555.14	385.6
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-54	331534-65	331534-66	331534-78	331534-80
Your Reference	UNITS	314	316	316	317	317
Depth		1.7-1.9	0.2-0.4	0.5-0.7	0.2-0.3	1-1.2
Date Sampled		22/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	328.27	586.7	324.47	542.87	392.61
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-84	331534-92	331534-93	331534-97	331534-101
Your Reference	UNITS	320	320D	320D	323	323
Depth		0.1-0.3	0-0.1	0.3-0.4	0.2-0.4	2.1-2.3
Date Sampled		18/08/2023	18/08/23	18/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	170.23	508.25	151.27	513.17	194.99
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected Synthetic mineral fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	Chrysotile Amosite	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	0.0131	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.0026	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-102	331534-106	331534-107	331534-111	331534-122
Your Reference	UNITS	323	324	324	325	326
Depth		2.5-2.7	0.15-0.25	0.5-0.7	0.2-0.4	0.15-0.25
Date Sampled		24/08/23	21/08/23	21/08/23	21/08/23	21/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	273.96	451.49	400.41	481.05	459.18
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Grey sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-123	331534-139	331534-140	331534-159	331534-160
Your Reference	UNITS	326	327	327	328A	328A
Depth		0.5-0.7	0.2-0.4	0.5-0.7	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	18/08/23	18/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	333.8	510.11	492.25	200.44	285.16
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Beige sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-162	331534-164	331534-165	331534-182	331534-183
Your Reference	UNITS	328A	328A	328A	328C	328C
Depth		1.5-1.7	2.4-2.6	3.3-3.5	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	21/08/23	21/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	349.56	295.58	245.41	265.12	341.16
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-187	331534-188	331534-195	331534-196	331534-204
Your Reference	UNITS	328C	328C	335	335	336
Depth		2.6-2.8	3.2-3.4	0.2-0.4	0.5-0.7	0.2-0.3
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	423.99	202.97	670.21	187.88	573.68
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331534-205	331534-206	331534-208	331534-210	331534-214
Your Reference	UNITS	336	336	336	336	336
Depth		0.4-0.5	0.6-0.7	1.1-1.2	1.4-1.5	2.4-2.6
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Sample mass tested	g	680.76	597.35	588.19	526.55	503.28
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM		
Our Reference		331534-226
Your Reference	UNITS	329
Depth		0-0.1
Date Sampled		23/08/2023
Type of sample		Soil
Date analysed	-	01/09/2023
Sample mass tested	g	638.59
Sample Description	-	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
FA and AF Estimation*#2	%(w/w)	<0.001

PFAS in Soils Short						
Our Reference		331534-11	331534-14	331534-17	331534-19	331534-24
Your Reference	UNITS	308	308	308	308	312
Depth		0.2-0.4	1.7-1.9	4.8-5	6.8-7	0.15-0.25
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	0.3	<0.1	0.2
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	0.4	<0.1	0.3	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	99	102	98	100	101
Surrogate $^{13}C_2$ *PFOA*	%	98	98	99	100	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%	91	95	89	89	91
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	105	101	97	96
Extracted ISTD $^{13}C_4$ *PFOA*	%	105	101	92	94	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	129	102	96	100	158
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	152	105	102	131	#
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	0.3	<0.1	0.2
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	0.3	<0.1	0.2
Total Positive PFAS	µg/kg	0.4	<0.1	0.7	<0.1	0.2

PFAS in Soils Short						
Our Reference		331534-27	331534-31	331534-33	331534-37	331534-38
Your Reference	UNITS	312	312	312	312	313
Depth		1.5-1.7	4.8-5	6.8-7	10.8-11	0.4-0.5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	1.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	100	99	93	96	101
Surrogate $^{13}C_2$ *PFOA*	%	99	100	96	98	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	84	84	84	86	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	100	100	99	108
Extracted ISTD $^{13}C_4$ *PFOA*	%	91	95	93	96	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	95	92	92	132	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	156	96	99	142	117
Total Positive PFHxS & PFOS	µg/kg	<0.1	1.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	1.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	1.1	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		331534-39	331534-40	331534-45	331534-49	331534-51
Your Reference	UNITS	313	313	313	313	314
Depth		0.8-1	1.4-1.6	5.3-5.5	7.8-8	0.15-0.25
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	0.3	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	101	99	100	99	98
Surrogate $^{13}C_2$ *PFOA*	%	102	98	108	99	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	90	95	84	84	85
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	106	95	96	104
Extracted ISTD $^{13}C_4$ *PFOA*	%	95	102	86	95	106
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	102	101	88	96	131
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	148	107	104	102	117
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1	0.3	<0.1

PFAS in Soils Short						
Our Reference		331534-52	331534-55	331534-59	331534-111	331534-113
Your Reference	UNITS	314	314	314	325	325
Depth		0.6-0.8	2-2.2	5.3-5.5	0.2-0.4	0.8-1
Date Sampled		22/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	100	101	96	97	99
Surrogate $^{13}C_2$ *PFOA*	%	97	101	90	93	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	89	91	86	90	89
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	100	103	106	105
Extracted ISTD $^{13}C_4$ *PFOA*	%	99	96	97	107	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	100	93	93	127	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	127	96	100	157	97
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		331534-117	331534-118	331534-120	331534-123	331534-124
Your Reference	UNITS	325	325	325	326	326
Depth		3.8-4	4.8-5	6.8-7	0.5-0.7	1-1.2
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.2	0.3	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.1	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	1	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	94	96	102	99	98
Surrogate $^{13}C_2$ *PFOA*	%	97	103	98	94	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92	88	86	84	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	110	103	95	94	112
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	91	92	97	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	93	92	93	143	93
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	105	96	103	168	106
Total Positive PFHxS & PFOS	µg/kg	0.2	0.3	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	0.4	0.3	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	1.3	0.3	<0.1	<0.1	<0.1

PFAS in Soils Short						
Our Reference		331534-127	331534-131	331534-139	331534-140	331534-142
Your Reference	UNITS	326	326	327	327	327
Depth		3.3-3.5	5.3-5.5	0.2-0.4	0.5-0.7	1.8-2
Date Sampled		21/08/23	21/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	1.2	1.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	0.2	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	0.7	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	0.8	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	99	97	95	94	97
Surrogate $^{13}C_2$ *PFOA*	%	101	95	99	93	92
Extracted ISTD $^{18}O_2$ *PFHxS*	%	88	86	89	89	93
Extracted ISTD $^{13}C_4$ *PFOS*	%	105	106	107	102	106
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	100	104	97	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99	97	112	87	88
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	101	141	135	98	102
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	2.2	1.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	1.2	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	3.9	1.1	<0.1

PFAS in Soils Short						
Our Reference		331534-145	331534-147	331534-182	331534-183	331534-185
Your Reference	UNITS	327	327	328C	328C	328C
Depth		4.8-5	6.8-7	0.1-0.3	0.5-0.7	1.5-1.7
Date Sampled		18/08/23	18/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	0.1	0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.5	0.6	1	1	0.5
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	0.6	0.4	0.3
6:2 FTS	µg/kg	<0.1	<0.1	6.0	1.3	1.2
8:2 FTS	µg/kg	<0.2	<0.2	5.1	0.5	0.3
Surrogate $^{13}C_8$ *PFOS*	%	101	99	97	103	100
Surrogate $^{13}C_2$ *PFOA*	%	95	102	89	89	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	86	87	93	93	91
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	95	104	107	106
Extracted ISTD $^{13}C_4$ *PFOA*	%	92	90	112	107	102
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	85	87	186	109	118
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	93	102	190	151	175
Total Positive PFHxS & PFOS	µg/kg	0.5	0.7	1.1	1	0.5
Total Positive PFOS & PFOA	µg/kg	0.5	0.6	1.6	1.4	0.8
Total Positive PFAS	µg/kg	0.5	0.7	13	3.3	2.3

PFAS in Soils Short					
Our Reference		331534-191	331534-216	331534-218	331534-219
Your Reference	UNITS	328C	BD1/20230821	BD1/20230823	BD6/20230824
Depth		4.8-5	-	-	-
Date Sampled		24/08/23	21/08/23	23/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	30/08/2023	30/08/2023	30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	1.3	1.6	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	0.1	<0.1	0.6	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	98	97	97	103
Surrogate $^{13}C_2$ *PFOA*	%	97	95	96	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	87	95	91	90
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	106	98	100
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	99	95	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	83	83	85	96
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99	102	95	100
Total Positive PFHxS & PFOS	µg/kg	<0.1	1.3	1.6	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	1.3	1.6	<0.1
Total Positive PFAS	µg/kg	0.1	1.3	2.2	<0.1

Asbestos ID - materials		
Our Reference		331534-225
Your Reference	UNITS	312/PACM3
Depth		0.2
Date Sampled		23/08/2023
Type of sample		Material
Date analysed	-	31/08/2023
Mass / Dimension of Sample	-	120x85x5mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: Total PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	
Date extracted	-			29/08/2023	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			04/09/2023	204	04/09/2023	04/09/2023		[NT]	[NT]
Total PCB (Aroclor 1016-1260)	mg/kg	0.1	Org-021	<0.1	204	1.7	2.0	16	[NT]	[NT]
Surrogate TCMX	%		Org-021	98	204	88	86	2	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-46
Date Extracted	-			29/08/2023	43	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date Analysed	-			30/08/2023	43	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	111	114
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	43	<1	<1	0	116	113
2,2-dichloropropane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	106	103
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	100	95
1,1-dichloropropene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	43	<0.2	<0.2	0	109	102
dibromomethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	43	<1	<1	0	103	92
bromodichloromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	103	93
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	43	3	3	0	105	117
1,3-dichloropropane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	43	<1	<1	0	93	83
1,2-dibromoethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	43	<1	<1	0	100	108
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	43	10	9	11	104	107
bromoform	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	43	160	150	6	111	61
styrene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-46
o-Xylene	mg/kg	1	Org-023	<1	43	81	78	4	108	87
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	43	4	4	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	43	12	12	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	43	53	53	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	43	170	170	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	43	3	3	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	43	3	3	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	43	15	15	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	43	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	43	100	102	2	106	102
Surrogate aaa-Trifluorotoluene	%		Org-023	98	43	112	115	3	98	101
Surrogate Toluene-d_8	%		Org-023	102	43	124	125	1	100	115
Surrogate 4-Bromofluorobenzene	%		Org-023	103	43	114	113	1	99	111

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date Extracted	-			[NT]	131	29/08/2023	29/08/2023		29/08/2023	[NT]
Date Analysed	-			[NT]	131	31/08/2023	31/08/2023		30/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	107	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	131	<1	<1	0	113	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	105	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	95	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	131	2	3	40	105	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	99	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	100	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	131	230	280	20	101	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	89	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	97	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	131	150	180	18	98	[NT]
bromoform	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	131	670	850	24	107	[NT]
styrene	mg/kg	1	Org-023	[NT]	131	7	6	15	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	131	10	10	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	131	380	450	17	103	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	131	3	4	29	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	131	71	86	19	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	131	200	240	18	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	131	620	800	25	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	131	210	210	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	131	2200	2700	20	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	131	11	13	17	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	131	11	12	9	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	131	2	3	40	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	131	27	29	7	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	131	7	8	13	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	131	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	131	90	83	8	108	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	131	111	111	0	94	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	131	131	133	2	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	131	123	130	6	99	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date Extracted	-			[NT]	193	29/08/2023	29/08/2023		29/08/2023	[NT]
Date Analysed	-			[NT]	193	04/09/2023	04/09/2023		31/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	116	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	193	<1	<1	0	114	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	99	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	96	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	193	<0.2	<0.2	0	109	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	104	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	95	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	193	<0.5	<0.5	0	113	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	90	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	105	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	115	[NT]
bromoform	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	193	<2	<2	0	120	[NT]
styrene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	120	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	193	101	101	0	98	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	193	91	82	10	100	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	193	102	102	0	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	193	98	98	0	103	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date Extracted	-			[NT]	219	29/08/2023	29/08/2023		29/08/2023	[NT]
Date Analysed	-			[NT]	219	31/08/2023	31/08/2023		31/08/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	120	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	219	<1	<1	0	117	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	106	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	103	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	219	<0.2	<0.2	0	111	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	109	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	103	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	219	<0.5	<0.5	0	114	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	97	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	107	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	118	[NT]
bromoform	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	219	<2	<2	0	122	[NT]
styrene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	121	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	219	93	94	1	99	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	219	95	95	0	98	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	219	103	103	0	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	219	103	103	0	104	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date Extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
Date Analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	31/08/2023	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	119	[NT]
chloroform	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	118	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	105	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	113	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	110	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	115	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	97	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	106	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	120	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	123	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	123	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			30/08/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	108	104
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	108	104
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	109	105
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	105	101
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	104	99
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	111	108
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	108	104
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	93	1	99	95	4	98	92

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	24	<25	<25	0	104	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	24	<25	<25	0	104	103
Benzene	mg/kg	0.2	Org-023	[NT]	24	<0.2	<0.2	0	105	105
Toluene	mg/kg	0.5	Org-023	[NT]	24	<0.5	<0.5	0	101	100
Ethylbenzene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	98	98
m+p-xylene	mg/kg	2	Org-023	[NT]	24	<2	<2	0	107	107
o-Xylene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	103	103
Naphthalene	mg/kg	1	Org-023	[NT]	24	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	24	90	86	5	94	94

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-46
Date extracted	-			[NT]	43	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	43	30/08/2023	30/08/2023		30/08/2023	30/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	43	360	410	13	111	90
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	43	850	890	5	111	90
Benzene	mg/kg	0.2	Org-023	[NT]	43	<0.2	<0.2	0	102	102
Toluene	mg/kg	0.5	Org-023	[NT]	43	3	3	0	106	117
Ethylbenzene	mg/kg	1	Org-023	[NT]	43	10	9	11	114	107
m+p-xylene	mg/kg	2	Org-023	[NT]	43	160	150	6	117	61
o-Xylene	mg/kg	1	Org-023	[NT]	43	81	78	4	115	87
Naphthalene	mg/kg	1	Org-023	[NT]	43	12	12	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	43	112	115	3	97	101

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-93
Date extracted	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	30/08/2023	30/08/2023		31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	65	<25	<25	0	115	81
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	65	<25	<25	0	115	81
Benzene	mg/kg	0.2	Org-023	[NT]	65	<0.2	<0.2	0	109	77
Toluene	mg/kg	0.5	Org-023	[NT]	65	<0.5	<0.5	0	113	78
Ethylbenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	115	80
m+p-xylene	mg/kg	2	Org-023	[NT]	65	<2	<2	0	120	84
o-Xylene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	120	83
Naphthalene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	65	83	82	1	100	96

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-107
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	30/08/2023	30/08/2023		31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	78	<25	<25	0	117	99
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	78	<25	<25	0	117	99
Benzene	mg/kg	0.2	Org-023	[NT]	78	<0.2	<0.2	0	111	94
Toluene	mg/kg	0.5	Org-023	[NT]	78	<0.5	<0.5	0	114	96
Ethylbenzene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	118	99
m+p-xylene	mg/kg	2	Org-023	[NT]	78	<2	<2	0	122	103
o-Xylene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	121	102
Naphthalene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	78	89	89	0	98	86

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-123
Date extracted	-			[NT]	92	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	92	31/08/2023	31/08/2023		31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	92	<25	<25	0	119	115
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	92	<25	<25	0	119	115
Benzene	mg/kg	0.2	Org-023	[NT]	92	<0.2	<0.2	0	113	110
Toluene	mg/kg	0.5	Org-023	[NT]	92	<0.5	<0.5	0	115	111
Ethylbenzene	mg/kg	1	Org-023	[NT]	92	<1	<1	0	120	114
m+p-xylene	mg/kg	2	Org-023	[NT]	92	<2	<2	0	123	119
o-Xylene	mg/kg	1	Org-023	[NT]	92	<1	<1	0	123	118
Naphthalene	mg/kg	1	Org-023	[NT]	92	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	92	93	88	6	98	96

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-139
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	31/08/2023	31/08/2023		30/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	106	<25	<25	0	118	115
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	106	<25	<25	0	118	115
Benzene	mg/kg	0.2	Org-023	[NT]	106	<0.2	<0.2	0	111	104
Toluene	mg/kg	0.5	Org-023	[NT]	106	<0.5	<0.5	0	112	114
Ethylbenzene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	121	117
m+p-xylene	mg/kg	2	Org-023	[NT]	106	<2	<2	0	125	119
o-Xylene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	123	119
Naphthalene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	106	99	85	15	96	90

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	331534-160
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		31/08/2023	31/08/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	122	<25	<25	0	120	110
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	122	<25	<25	0	120	110
Benzene	mg/kg	0.2	Org-023	[NT]	122	<0.2	<0.2	0	114	104
Toluene	mg/kg	0.5	Org-023	[NT]	122	<0.5	<0.5	0	115	105
Ethylbenzene	mg/kg	1	Org-023	[NT]	122	<1	<1	0	120	112
m+p-xylene	mg/kg	2	Org-023	[NT]	122	<2	<2	0	125	115
o-Xylene	mg/kg	1	Org-023	[NT]	122	<1	<1	0	124	114
Naphthalene	mg/kg	1	Org-023	[NT]	122	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	122	85	85	0	100	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	131	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	131	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	131	2300	2500	8	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	131	6300	8400	29	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	131	2	3	40	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	131	230	280	20	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	131	150	180	18	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	131	670	850	24	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	131	380	450	17	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	131	10	11	10	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	131	111	111	0	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	150	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	150	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	150	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	150	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	150	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	150	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	150	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	150	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	150	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	150	90	94	4	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	159	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	159	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	159	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	159	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	159	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	159	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	159	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	159	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	159	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	159	96	96	0	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	182	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	182	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	182	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	182	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	182	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	182	<2	2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	182	<1	2	67	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	182	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	182	94	95	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	193	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	193	04/09/2023	04/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	193	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	193	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	193	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	193	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	193	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	193	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	193	91	82	10	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	04/09/2023	04/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	195	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	195	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	195	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	195	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	195	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	195	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	195	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	195	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	195	96	94	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	04/09/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	204	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	204	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	204	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	204	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	204	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	204	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	204	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	204	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	204	98	92	6	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	210	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	210	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	210	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	210	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	210	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	210	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	210	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	210	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	210	94	93	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	219	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	219	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	219	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	219	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	219	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	219	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	219	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	219	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	219	95	95	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			30/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			01/09/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	112	108
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	100	105
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	100	118
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	112	108
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	100	105
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	100	118
Surrogate o-Terphenyl	%		Org-020	93	1	79	83	5	89	83

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	24	<50	<50	0	108	106
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	24	<100	140	33	98	103
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	24	<100	<100	0	86	95
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	24	<50	<50	0	108	106
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	24	<100	160	46	98	103
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	24	<100	<100	0	86	95
Surrogate o-Terphenyl	%		Org-020	[NT]	24	85	82	4	88	81

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-46
Date extracted	-			[NT]	43	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	43	31/08/2023	31/08/2023		31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	43	1300	1600	21	126	66
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	43	110	110	0	111	94
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	43	<100	<100	0	100	77
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	43	740	870	16	126	66
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	43	100	100	0	111	94
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	43	<100	<100	0	100	77
Surrogate o-Terphenyl	%		Org-020	[NT]	43	84	84	0	101	81

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-93
Date extracted	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	31/08/2023	31/08/2023		30/08/2023	01/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	117	123
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	101	129
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	86	##
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	117	123
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	101	129
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	86	##
Surrogate o-Terphenyl	%		Org-020	[NT]	65	97	97	0	89	95

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-107
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	01/09/2023	01/09/2023		31/08/2023	30/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	78	<50	<50	0	112	113
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	78	<100	<100	0	106	109
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	78	<100	<100	0	86	122
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	78	<50	<50	0	112	113
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	78	<100	<100	0	106	109
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	78	<100	<100	0	86	122
Surrogate o-Terphenyl	%		Org-020	[NT]	78	87	93	7	89	99

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-123
Date extracted	-			[NT]	92	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	92	01/09/2023	01/09/2023		31/08/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	92	75	100	29	124	111
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	92	1200	1500	22	113	107
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	92	1500	1700	12	100	104
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	92	89	120	30	124	111
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	92	2300	2700	16	113	107
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	92	880	970	10	100	104
Surrogate o-Terphenyl	%		Org-020	[NT]	92	#	#		102	94

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-139
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	30/08/2023	30/08/2023		01/09/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	106	<50	<50	0	118	108
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	106	<100	100	0	111	113
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	114	83
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	106	<50	<50	0	118	108
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	106	<100	100	0	111	113
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	114	83
Surrogate o-Terphenyl	%		Org-020	[NT]	106	88	87	1	96	84

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	331534-160
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		01/09/2023	31/08/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	122	<50	<50	0	125	119
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	122	160	220	32	108	115
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	122	<100	<100	0	100	103
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	122	<50	<50	0	125	119
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	122	170	250	38	108	115
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	122	<100	<100	0	100	103
Surrogate o-Terphenyl	%		Org-020	[NT]	122	86	96	11	95	102

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	131	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	131	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	131	6600	6800	3	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	131	250	240	4	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	131	1600	1700	6	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	131	190	180	5	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	131	97	95	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	150	31/08/2023	31/08/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	150	80	120	40	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	150	170	240	34	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	150	110	160	37	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	150	77	100	26	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	150	220	340	43	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	150	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	150	104	105	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	159	01/09/2023	01/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	159	96	93	3	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	159	190	220	15	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	159	120	130	8	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	159	88	95	8	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	159	270	280	4	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	159	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	159	94	95	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	01/09/2023	01/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	182	110	<50	75	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	182	280	270	4	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	182	150	130	14	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	182	100	<50	67	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	182	370	350	6	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	182	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	182	109	104	5	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	01/09/2023	01/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	195	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	195	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	195	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	195	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	195	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	195	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	195	94	90	4	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	01/09/2023	01/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	204	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	204	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	204	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	204	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	204	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	204	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	204	88	88	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	01/09/2023	01/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	210	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	210	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	210	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	210	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	210	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	210	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	210	90	88	2	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			01/09/2023	43	01/09/2023	01/09/2023		01/09/2023	[NT]
Date analysed	-			01/09/2023	43	01/09/2023	01/09/2023		01/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	43	690	900	26	66	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	43	<100	<100	0	72	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	43	<100	<100	0	86	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	43	390	480	21	66	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	43	<100	<100	0	72	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	43	<100	<100	0	86	[NT]
Surrogate o-Terphenyl	%		Org-020	114	43	85	85	0	85	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	131	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	131	01/09/2023	01/09/2023		[NT]	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	131	3800	2300	49	[NT]	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	131	970	760	24	[NT]	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	131	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	131	85	83	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			01/09/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	96
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	107	107
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	99
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	99
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	99
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	105
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	89
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	88	86
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	98	1	113	112	1	99	100

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	93	88
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	107	101
Fluorene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	99	92
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	104	96
Anthracene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	102	94
Pyrene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	105	99
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	101	93
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	24	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	24	<0.05	<0.05	0	88	88
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	24	110	104	6	98	134

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-46
Date extracted	-			[NT]	43	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	43	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	43	9.3	7.1	27	93	#
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	107	95
Fluorene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	97	88
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	104	92
Anthracene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	100	86
Pyrene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	101	93
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	101	89
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	43	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	43	<0.05	<0.05	0	84	84
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	43	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	43	108	108	0	96	90

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-93
Date extracted	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	30/08/2023	30/08/2023		31/08/2023	31/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	92	97
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	103	101
Fluorene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	95	97
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	100	100
Anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	96	92
Pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	101	103
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	95	95
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	65	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	65	<0.05	<0.05	0	96	110
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	65	102	102	0	89	87

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-107
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	01/09/2023	01/09/2023		31/08/2023	31/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	95	92
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	105	103
Fluorene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	99	95
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	104	100
Anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	98	96
Pyrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	101	101
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	99	97
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	78	<0.05	<0.05	0	98	102
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	78	98	101	3	90	88

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-123
Date extracted	-			[NT]	92	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	92	31/08/2023	31/08/2023		01/09/2023	31/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	0.2	67	95	93
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	105	105
Fluorene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	97	97
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	0.1	0	102	102
Anthracene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	92	0.1	0.1	0	96	96
Pyrene	mg/kg	0.1	Org-022/025	[NT]	92	0.1	0.1	0	99	103
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	92	0.2	0.2	0	99	99
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	92	0.2	0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	92	0.06	0.06	0	88	108
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	92	<0.1	0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	92	88	86	2	92	88

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-139
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	31/08/2023	31/08/2023		01/09/2023	31/08/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	92	96
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	105	107
Fluorene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	99	97
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	100	102
Anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	98	96
Pyrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	99	105
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	101	99
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	106	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	106	<0.05	0.07	33	92	100
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	106	93	96	3	90	90

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	331534-160
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		01/09/2023	01/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	92	97
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	0.2	67	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	101	109
Fluorene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	95	99
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	1.1	167	100	104
Anthracene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	0.1	0	100	100
Pyrene	mg/kg	0.1	Org-022/025	[NT]	122	0.2	0.5	86	101	105
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	0.2	67	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	122	0.1	0.3	100	97	101
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	122	<0.2	0.3	40	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	122	0.09	0.2	76	90	90
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	122	90	91	1	93	94

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	131	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	131	31/08/2023	31/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	131	6.3	6.4	2	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	131	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	131	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	131	102	99	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	150	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	150	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	150	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	150	104	103	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	159	31/08/2023	31/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	159	0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	159	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	159	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	159	100	99	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	182	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	182	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	182	99	101	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	195	0.2	0.2	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	195	0.2	0.3	40	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	195	0.9	1.0	11	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	195	0.9	1.1	20	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	195	0.5	0.6	18	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	195	0.5	0.6	18	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	195	0.8	1	22	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	195	0.57	0.64	12	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	195	0.3	0.3	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	195	0.4	0.4	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	195	96	99	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	204	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	204	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	204	99	99	0	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	01/09/2023	31/08/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	210	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	210	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	210	99	100	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			01/09/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	100
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	108
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	119
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	105
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	104
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	119
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	122
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	115
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	102
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	107
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	94	1	103	102	1	96	97

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	98	92
HCB	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	106	96
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	111	107
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	99	95
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	90
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	111	105
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	114	108
Endrin	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	100
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	94	92
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	87	93
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	24	99	97	2	95	136

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-93
Date extracted	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	30/08/2023	30/08/2023		30/08/2023	31/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	98	96
HCB	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	104	99
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	107	117
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	97	104
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	90	101
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	107	116
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	112	119
Endrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	80	114
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	86	124
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	76	103
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	65	98	99	1	95	93

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-107
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	01/09/2023	01/09/2023		31/08/2023	31/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	98	92
HCB	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	106	100
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	117	95
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	101	107
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	96	96
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	105	105
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	126	130
Endrin	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	103	84
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	0.1	0	92	88
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	0.3	100	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	101	85
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	78	96	100	4	88	87

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-123
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	31/08/2023	31/08/2023		31/08/2023	31/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	98	98
HCB	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	102	110
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	103	115
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	105	114
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	94	110
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	106	7.1	5.6	24	107	#
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	130	139
Endrin	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	86	115
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	106	3.4	4.2	21	90	#
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	106	0.9	0.9	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	91	83
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	106	91	93	2	91	84

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-139
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		01/09/2023	31/08/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	92	93
HCB	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	96	95
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	97	112
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	95	103
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	84	97
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	122	12	14	15	101	134
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	126	116
Endrin	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	68	107
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	122	12	14	15	80	99
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	122	46	24	63	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	80	95
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	122	89	91	2	89	109

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-160
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	150	01/09/2023	01/09/2023		01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	96	94
HCB	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	106	94
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	109	91
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	95	101
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	84	88
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	150	0.2	0.4	67	98	111
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	128	137
Endrin	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	90	62
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	150	0.1	0.3	100	86	90
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	150	0.2	0.3	40	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	89	89
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	150	98	99	1	88	89

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		29/08/2023	[NT]
Date analysed	-			[NT]	159	31/08/2023	31/08/2023		01/09/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	90	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	98	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	93	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	82	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	159	1	0.8	22	98	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	130	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	78	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	159	0.7	0.6	15	88	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	159	1.7	1.2	34	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	80	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	159	96	98	2	86	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	01/09/2023	01/09/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	182	1	0.9	11	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	182	0.6	0.6	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	182	0.4	0.4	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	182	95	94	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	01/09/2023	01/09/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	195	88	92	4	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	01/09/2023	01/09/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	204	88	86	2	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	01/09/2023	31/08/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	210	85	86	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			01/09/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	113
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	104
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	85	99
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	99	114
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	106
Fenthion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	82	92
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	72	99
Phosalone	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	94	1	103	102	1	96	97

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	109	101
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	101	95
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	85	85
Malathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	99	99
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	100	96
Fenthion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	82	82
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	70	80
Phosalone	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	24	99	97	2	95	136

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-93
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	01/09/2023	01/09/2023		30/08/2023	31/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	103	106
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	97	100
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	79	110
Malathion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	87	108
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	96	104
Fenthion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	78	110
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	64	96
Phosalone	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	78	96	100	4	95	93

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-107
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	31/08/2023	31/08/2023		31/08/2023	31/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	113	111
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	99	97
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	109	115
Malathion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	118	120
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	104	106
Fenthion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	103	111
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	90	102
Phosalone	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	106	91	93	2	88	87

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-123
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		31/08/2023	31/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	117	125
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	99	101
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	103	136
Malathion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	118	136
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	106	115
Fenthion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	101	136
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	94	127
Phosalone	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	122	89	91	2	91	84

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-139
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	150	01/09/2023	01/09/2023		01/09/2023	31/08/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	105	96
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	91	96
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	75	104
Malathion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	95	106
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	96	98
Fenthion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	78	102
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	66	90
Phosalone	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	150	98	99	1	89	109

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-160
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	159	31/08/2023	01/09/2023		01/09/2023	01/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	113	107
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	95	95
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	85	79
Malathion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	105	103
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	96	102
Fenthion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	86	82
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	68	80
Phosalone	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	159	96	98	2	88	89

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		29/08/2023	[NT]
Date analysed	-			[NT]	182	01/09/2023	01/09/2023		01/09/2023	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	105	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	93	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	77	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	99	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	98	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	80	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	68	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	182	91	90	1	86	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	01/09/2023	01/09/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	195	88	92	4	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	01/09/2023	01/09/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	204	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	204	88	86	2	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	01/09/2023	01/09/2023		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	210	85	86	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date extracted	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			01/09/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	101	110
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	94	1	103	102	1	96	97

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date extracted	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	101	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	24	99	97	2	95	136

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-93
Date extracted	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	30/08/2023	30/08/2023		30/08/2023	31/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	100	110
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	65	98	99	1	95	85

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-107
Date extracted	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	01/09/2023	01/09/2023		31/08/2023	31/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	103	104
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	78	96	100	4	88	87

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-123
Date extracted	-			[NT]	106	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	106	31/08/2023	31/08/2023		31/08/2023	31/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	102	123
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	106	91	93	2	91	84

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-139
Date extracted	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	31/08/2023	31/08/2023		01/09/2023	31/08/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	102	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	122	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	122	89	91	2	89	88

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	331534-160
Date extracted	-			[NT]	150	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	150	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	100	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	150	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	150	98	99	1	88	89

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date extracted	-			[NT]	159	29/08/2023	29/08/2023		29/08/2023	[NT]
Date analysed	-			[NT]	159	31/08/2023	31/08/2023		01/09/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	100	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	159	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	159	96	98	2	86	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	01/09/2023	01/09/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	182	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	182	91	90	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	01/09/2023	01/09/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	195	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	195	88	92	4	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	01/09/2023	31/08/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	210	85	86	1	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331534-11
Date prepared	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			30/08/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	113	113
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	102	100
Chromium	mg/kg	1	Metals-020	<1	1	<1	<1	0	123	109
Copper	mg/kg	1	Metals-020	<1	1	<1	<1	0	115	125
Lead	mg/kg	1	Metals-020	<1	1	<1	<1	0	129	108
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	101	109
Nickel	mg/kg	1	Metals-020	<1	1	<1	<1	0	112	112
Zinc	mg/kg	1	Metals-020	<1	1	3	4	29	125	101

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	331534-38
Date prepared	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	24	<4	<4	0	105	115
Cadmium	mg/kg	0.4	Metals-020	[NT]	24	<0.4	<0.4	0	99	104
Chromium	mg/kg	1	Metals-020	[NT]	24	14	11	24	109	109
Copper	mg/kg	1	Metals-020	[NT]	24	27	24	12	105	111
Lead	mg/kg	1	Metals-020	[NT]	24	54	34	45	113	101
Mercury	mg/kg	0.1	Metals-021	[NT]	24	<0.1	<0.1	0	112	109
Nickel	mg/kg	1	Metals-020	[NT]	24	37	31	18	107	110
Zinc	mg/kg	1	Metals-020	[NT]	24	67	48	33	110	114

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	331534-46
Date prepared	-			[NT]	43	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	43	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	43	<4	<4	0	108	109
Cadmium	mg/kg	0.4	Metals-020	[NT]	43	<0.4	<0.4	0	98	101
Chromium	mg/kg	1	Metals-020	[NT]	43	2	2	0	115	104
Copper	mg/kg	1	Metals-020	[NT]	43	<1	<1	0	114	105
Lead	mg/kg	1	Metals-020	[NT]	43	<1	<1	0	118	109
Mercury	mg/kg	0.1	Metals-021	[NT]	43	<0.1	<0.1	0	106	111
Nickel	mg/kg	1	Metals-020	[NT]	43	<1	<1	0	109	106
Zinc	mg/kg	1	Metals-020	[NT]	43	2	3	40	109	104

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	331534-93
Date prepared	-			[NT]	65	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	65	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	65	<4	<4	0	103	102
Cadmium	mg/kg	0.4	Metals-020	[NT]	65	<0.4	<0.4	0	96	88
Chromium	mg/kg	1	Metals-020	[NT]	65	3	4	29	108	#
Copper	mg/kg	1	Metals-020	[NT]	65	13	15	14	103	127
Lead	mg/kg	1	Metals-020	[NT]	65	11	13	17	117	#
Mercury	mg/kg	0.1	Metals-021	[NT]	65	<0.1	<0.1	0	108	105
Nickel	mg/kg	1	Metals-020	[NT]	65	4	12	100	104	101
Zinc	mg/kg	1	Metals-020	[NT]	65	22	24	9	107	#

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-107
Date prepared	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	78	<4	<4	0	104	104
Cadmium	mg/kg	0.4	Metals-020	[NT]	78	<0.4	<0.4	0	99	97
Chromium	mg/kg	1	Metals-020	[NT]	78	6	6	0	114	100
Copper	mg/kg	1	Metals-020	[NT]	78	7	5	33	103	101
Lead	mg/kg	1	Metals-020	[NT]	78	29	26	11	118	103
Mercury	mg/kg	0.1	Metals-021	[NT]	78	<0.1	<0.1	0	104	##
Nickel	mg/kg	1	Metals-020	[NT]	78	3	2	40	106	102
Zinc	mg/kg	1	Metals-020	[NT]	78	33	28	16	122	93

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331534-123
Date prepared	-			[NT]	92	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	92	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	92	6	6	0	108	107
Cadmium	mg/kg	0.4	Metals-020	[NT]	92	2	2	0	102	101
Chromium	mg/kg	1	Metals-020	[NT]	92	410	400	2	115	103
Copper	mg/kg	1	Metals-020	[NT]	92	160	140	13	110	119
Lead	mg/kg	1	Metals-020	[NT]	92	1600	1500	6	123	110
Mercury	mg/kg	0.1	Metals-021	[NT]	92	20	13	42	101	111
Nickel	mg/kg	1	Metals-020	[NT]	92	96	94	2	111	105
Zinc	mg/kg	1	Metals-020	[NT]	92	1000	1100	10	122	84

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331534-139
Date prepared	-			[NT]	106	29/08/2023	29/08/2023		[NT]	29/08/2023
Date analysed	-			[NT]	106	30/08/2023	30/08/2023		[NT]	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	106	<4	<4	0	[NT]	106
Cadmium	mg/kg	0.4	Metals-020	[NT]	106	1	0.7	35	[NT]	97
Chromium	mg/kg	1	Metals-020	[NT]	106	16	16	0	[NT]	109
Copper	mg/kg	1	Metals-020	[NT]	106	68	75	10	[NT]	71
Lead	mg/kg	1	Metals-020	[NT]	106	110	120	9	[NT]	#
Mercury	mg/kg	0.1	Metals-021	[NT]	106	80	75	6	[NT]	##
Nickel	mg/kg	1	Metals-020	[NT]	106	13	12	8	[NT]	99
Zinc	mg/kg	1	Metals-020	[NT]	106	190	240	23	[NT]	#

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331534-160
Date prepared	-			[NT]	122	29/08/2023	29/08/2023		[NT]	29/08/2023
Date analysed	-			[NT]	122	30/08/2023	30/08/2023		[NT]	30/08/2023
Arsenic	mg/kg	4	Metals-020	[NT]	122	<4	<4	0	[NT]	112
Cadmium	mg/kg	0.4	Metals-020	[NT]	122	1	2	67	[NT]	105
Chromium	mg/kg	1	Metals-020	[NT]	122	17	24	34	[NT]	113
Copper	mg/kg	1	Metals-020	[NT]	122	42	49	15	[NT]	114
Lead	mg/kg	1	Metals-020	[NT]	122	180	220	20	[NT]	##
Mercury	mg/kg	0.1	Metals-021	[NT]	122	1.5	1.8	18	[NT]	##
Nickel	mg/kg	1	Metals-020	[NT]	122	12	10	18	[NT]	109
Zinc	mg/kg	1	Metals-020	[NT]	122	200	210	5	[NT]	117

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	131	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	131	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	131	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	131	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	131	2	2	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	131	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	131	5	4	22	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	131	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	131	8	7	13	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	150	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	150	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	150	4	6	40	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	150	1	1	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	150	94	120	24	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	150	230	310	30	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	150	1600	1500	6	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	150	12	14	15	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	150	16	29	58	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	150	1700	1500	12	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	159	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	159	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	159	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	159	2	1	67	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	159	130	110	17	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	159	480	250	63	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	159	2300	1000	79	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	159	26	17	42	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	159	13	13	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	159	2300	820	95	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	182	12	9	29	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	182	15	12	22	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	182	190	190	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	182	1800	1300	32	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	182	5700	4700	19	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	182	19	20	5	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	182	89	77	14	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	182	25000	20000	22	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	195	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	195	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	195	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	195	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	195	2	2	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	195	21	6	111	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	195	13	14	7	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	195	0.2	0.1	67	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	195	4	2	67	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	195	15	13	14	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	204	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	204	0.8	1	22	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	204	17	32	61	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	204	13	15	14	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	204	150	330	75	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	204	0.1	0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	204	3	5	50	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	204	100	140	33	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	210	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	210	30/08/2023	30/08/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	210	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	210	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	210	2	2	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	210	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	210	3	3	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	210	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	210	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	210	5	4	22	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	331534-11
Date prepared	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			29/08/2023	1	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	102	102

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	331534-123
Date prepared	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	78	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	78	<5	<5	0	102	100

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	331534-160
Date prepared	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	122	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	122	<5	<5	0	103	107

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	182	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	204	29/08/2023	29/08/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	204	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	331534-38
Date prepared	-			29/08/2023	11	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			30/08/2023	11	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	11	<0.1	<0.1	0	119	114
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	11	<0.1	<0.1	0	98	105
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	11	<0.1	<0.1	0	112	107
6:2 FTS	µg/kg	0.1	Org-029	<0.1	11	0.4	0.3	29	112	109
8:2 FTS	µg/kg	0.2	Org-029	<0.2	11	<0.2	<0.2	0	106	114
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	95	11	99	99	0	94	100
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	101	11	98	99	1	105	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	98	11	91	93	2	89	88
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	108	11	101	108	7	107	101
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	104	11	105	105	0	94	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	117	11	129	114	12	101	92
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	131	11	152	142	7	117	107

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	331534-123
Date prepared	-			[NT]	24	29/08/2023	29/08/2023		29/08/2023	29/08/2023
Date analysed	-			[NT]	24	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	24	<0.1	<0.1	0	116	121
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	24	0.2	0.2	0	106	102
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	24	<0.1	<0.1	0	100	99
6:2 FTS	µg/kg	0.1	Org-029	[NT]	24	<0.1	<0.1	0	110	127
8:2 FTS	µg/kg	0.2	Org-029	[NT]	24	<0.2	<0.2	0	118	115
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	24	101	101	0	101	102
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	24	96	94	2	97	91
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	24	91	88	3	87	108
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	24	96	97	1	98	121
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	24	103	105	2	102	123

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	331534-123
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	24	158	128	21	100	156
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	24	#	#		105	#

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	124	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	124	30/08/2023	30/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	124	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	124	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	124	<0.1	<0.1	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	124	<0.1	<0.1	0	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	124	<0.2	<0.2	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	124	98	94	4	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	124	99	96	3	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	124	90	89	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	124	112	109	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	124	97	99	2	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	124	93	89	4	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	124	106	98	8	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	131	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	131	30/08/2023	30/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	131	<0.1	<0.1	0	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	131	<0.2	<0.2	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	131	97	103	6	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	131	95	98	3	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	131	86	87	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	131	106	99	7	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	131	100	97	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	131	97	94	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	131	141	144	2	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	182	29/08/2023	29/08/2023		[NT]	[NT]
Date analysed	-			[NT]	182	30/08/2023	30/08/2023		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	[NT]	182	0.1	<0.1	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	[NT]	182	1	0.8	22	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	[NT]	182	0.6	0.6	0	[NT]	[NT]
6:2 FTS	µg/kg	0.1	Org-029	[NT]	182	6.0	5.9	2	[NT]	[NT]
8:2 FTS	µg/kg	0.2	Org-029	[NT]	182	5.1	5.4	6	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	182	97	99	2	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	182	89	85	5	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	182	93	89	4	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	182	104	105	1	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	182	112	111	1	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-029	[NT]	182	186	163	13	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-029	[NT]	182	190	184	3	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 331534-24 for Pb. Therefore a triplicate result has been issued as laboratory sample number 331534-227.
- The laboratory RPD acceptance criteria has been exceeded for 331534-65 for Ni. Therefore a triplicate result has been issued as laboratory sample number 331534-228.
- The laboratory RPD acceptance criteria has been exceeded for 331534-150 for Ni. Therefore a triplicate result has been issued as laboratory sample number 331534-229.
- The laboratory RPD acceptance criteria has been exceeded for 331534-159 for Cu, Pb, Hg and Zn. Therefore a triplicate result has been issued as laboratory sample number 331534-230.
- The laboratory RPD acceptance criteria has been exceeded for 331534-195 for Cu. Therefore a triplicate result has been issued as laboratory sample number 331534-231.
- The laboratory RPD acceptance criteria has been exceeded for 331534-204 for Cr and Pb. Therefore a triplicate result has been issued as laboratory sample number 331534-232.
- The laboratory RPD acceptance criteria has been exceeded for 331534-92 for Hg. Therefore a triplicate result has been issued as laboratory sample number 331534-233.
- # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- ## Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

PAHs in Soil - The RPD for duplicate results is accepted due to the non homogenous nature of sample/s 331534-122.

TRH Soil C10-C40 NEPM - ## Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 331534-93ms have caused interference.

OCP_S_MSMS:# Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 331534-123ms have caused interference.

PFAS: For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 331534-24; Chrysotile asbestos identified in 0.0377g of fibre cement material >7mm
Sample 331534-92; Chrysotile & Amosite asbestos identified in 0.0164g of fibrous matted material

Note: All samples analysed as received. However, samples 331534-3, 13, 24, 25, 40, 52, 54, 66, 80, 84, 93, 101, 102, 107, 123, 159, 160, 162, 164, 165, 182, 183, 187, 188, 196 are below the minimum recommended 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

OC's in Soil - The laboratory RPD acceptance criteria has been exceeded for 331534-122. Therefore a triplicate result has been issued as laboratory sample number 331534-234.

SAMPLES 38,204 have been reported as TOTAL PCB due to a mixture of PCBs present.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	331534
Date Sample Received	25/08/2023
Date Instructions Received	28/08/2023
Date Results Expected to be Reported	04/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	225 Soil, 1 Material
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
305-0.2-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓			
305-0.5-0.7														✓
305-1-1.2			✓	✓	✓				✓		✓			
305-1.5-1.7														✓
305-2-2.2			✓	✓	✓				✓					
305-2.8-3														✓
305-3.8-4			✓	✓										
305-4.8-5			✓	✓	✓				✓	✓				
305-5.8-6			✓	✓										
305-6.8-7														✓
308-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
308-0.5-0.7														✓
308-1-1.2			✓	✓	✓				✓		✓			
308-1.7-1.9			✓	✓	✓				✓			✓		
308-2.8-3														✓
308-3.8-4														✓
308-4.8-5			✓	✓	✓				✓			✓		
308-5.8-6			✓	✓										
308-6.8-7			✓	✓	✓				✓			✓		
308-7.8-8														✓
308-8.8-9														✓
308-9.8-10	✓		✓	✓										
308-10.8-11			✓	✓	✓				✓					
312-0.15-0.25			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
312-0.4-0.6			✓	✓	✓				✓		✓			
312-0.9-1.1														✓
312-1.5-1.7			✓	✓	✓				✓	✓		✓		
312-1.8-2			✓	✓	✓				✓					
312-2.8-3														✓
312-3.8-4			✓	✓										
312-4.8-5	✓		✓	✓	✓				✓	✓		✓		
312-5.8-6			✓	✓										

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
312-6.8-7	✓		✓	✓	✓				✓			✓		
312-7.8-8														✓
312-8.8-9														✓
312-9.8-10.1														✓
312-10.8-11	✓		✓	✓	✓				✓			✓		
313-0.4-0.5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
313-0.8-1			✓	✓	✓				✓	✓		✓		
313-1.4-1.6			✓	✓	✓				✓		✓	✓		
313-2.8-3			✓	✓	✓				✓					
313-3.8-4			✓	✓										
313-4.3-4.5	✓	✓	✓	✓	✓				✓					
313-4.8-5	✓		✓	✓	✓				✓	✓				
313-5.3-5.5	✓	✓	✓	✓								✓		
313-5.8-6	✓	✓	✓	✓	✓				✓	✓				
313-6.3-6.5	✓		✓	✓										
313-6.8-7														✓
313-7.8-8	✓		✓	✓	✓				✓			✓		
313-8.8-9			✓	✓										
314-0.15-0.25			✓	✓	✓	✓		✓	✓		✓	✓		
314-0.6-0.8			✓	✓	✓				✓		✓	✓		
314-1-1.2														✓
314-1.7-1.9			✓	✓	✓				✓		✓			
314-2-2.2			✓	✓	✓				✓			✓		
314-2.8-3														✓
314-3.8-4														✓
314-4.8-5			✓	✓										
314-5.3-5.5	✓		✓	✓	✓				✓			✓		
314-5.8-6	✓	✓	✓	✓										
314-6.3-6.5	✓	✓	✓	✓										
314-6.8-7			✓	✓										
314-7.3-7.5	✓		✓	✓	✓				✓					
314-7.8-8														✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
316-0.2-0.4			✓	✓	✓	✓		✓	✓		✓			
316-0.5-0.7			✓	✓	✓				✓		✓			
316-1-1.2														✓
316-1.4-1.6			✓	✓	✓				✓					
316-1.8-2														✓
316-2.8-3														✓
316-3.8-4			✓	✓	✓				✓					
316-4.8-5	✓		✓	✓	✓				✓	✓				
316-5.8-6														✓
316-6.8-7	✓		✓	✓	✓				✓					
316-7.8-8														✓
316-8.8-9														✓
316-9.8-10			✓	✓	✓				✓					
317-0.2-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓			
317-0.5-0.7														✓
317-1-1.2			✓	✓	✓	✓		✓	✓		✓			
317-1.7-1.9			✓	✓	✓				✓					
317-2.8-3														✓
317-3.8-4			✓	✓										
320-0.1-0.3			✓	✓	✓	✓		✓	✓		✓			
320-0.4-0.6			✓	✓	✓				✓					
320-0.9-1.1														✓
320-1.8-2														✓
320C-0.2-0.4			✓	✓	✓				✓					
320C-0.5-0.7			✓	✓	✓				✓					
320C-1-1.2														✓
320C-1.8-2			✓	✓	✓				✓					
320D-0-0.1			✓	✓	✓				✓		✓			
320D-0.3-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓			
320D-0.5-0.7			✓	✓	✓				✓					
320D-0.8-1														✓
320D-1.8-2			✓	✓	✓				✓					

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
323-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓			
323-0.7-0.9						✓								
323-1.2-1.4														✓
323-1.7-1.9														✓
323-2.1-2.3	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			
323-2.5-2.7	✓		✓	✓	✓				✓		✓			
323-3.1-3.3														✓
323-3.7-3.9			✓	✓										
323-4.7-4.9			✓	✓	✓				✓					
324-0.15-0.25			✓	✓	✓	✓	✓	✓	✓	✓	✓			
324-0.5-0.7			✓	✓	✓	✓	✓	✓	✓	✓	✓			
324-0.8-1														✓
324-1.1-1.3														✓
324-1.8-2			✓	✓	✓	✓		✓	✓					
325-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
325-0.5-0.7														✓
325-0.8-1			✓	✓	✓	✓		✓	✓			✓		
325-1.3-1.5														✓
325-1.8-2														✓
325-2.8-3														✓
325-3.8-4			✓	✓								✓		
325-4.8-5			✓	✓	✓				✓			✓		
325-5.8-6														✓
325-6.8-7	✓		✓	✓	✓				✓			✓		
325-7.8-8														✓
326-0.15-0.25			✓	✓	✓	✓	✓	✓	✓	✓	✓			
326-0.5-0.7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
326-1-1.2			✓	✓	✓				✓	✓		✓		
326-1.8-2														✓
326-2.8-3														✓
326-3.3-3.5			✓	✓	✓				✓			✓		
326-3.8-4			✓	✓										

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
326-4.3-4.5	✓	✓	✓	✓	✓				✓	✓				
326-4.8-5	✓		✓	✓										
326-5.3-5.5	✓	✓	✓	✓	✓				✓	✓		✓		
326-5.8-6	✓	✓	✓	✓										
326-6.3-6.5	✓		✓	✓										
326-6.8-7	✓	✓	✓	✓	✓				✓	✓				
326-7.3-7.5	✓		✓	✓										
326-7.8-8			✓	✓										
326-8.3-8.5														✓
326-8.8-9														✓
327-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
327-0.5-0.7			✓	✓	✓	✓		✓	✓		✓	✓		
327-1-1.2														✓
327-1.8-2			✓	✓	✓				✓			✓		
327-2.8-3														✓
327-3.8-4														✓
327-4.8-5	✓		✓	✓	✓				✓			✓		
327-5.8-6			✓	✓										
327-6.8-7	✓		✓	✓	✓				✓			✓		
327-7.8-8														✓
327-8.8-9														✓
328-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓				
328-0.4-0.6			✓	✓	✓	✓	✓	✓	✓	✓				
328-0.8-1			✓	✓	✓	✓	✓	✓	✓	✓				
328-1.3-1.5			✓	✓	✓				✓					
328-1.8-2														✓
328-2.1-2.3														✓
328-2.8-3			✓	✓	✓				✓					
328-3.5-3.7														✓
328-4.5-4.7														✓
328A-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓			
328A-0.5-0.7			✓	✓	✓	✓	✓	✓	✓	✓	✓			

Envirolab Services Pty Ltd
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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
328A-1-1.2														✓
328A-1.5-1.7			✓	✓	✓				✓		✓			
328A-2-2.2														✓
328A-2.4-2.6			✓	✓	✓				✓		✓			
328A-3.3-3.5	✓		✓	✓	✓				✓		✓			
328A-3.8-4			✓	✓										
328A-4.1-4.3			✓	✓	✓				✓					
328A-4.8-5														✓
328B-0.1-0.3			✓	✓	✓	✓		✓	✓					
328B-0.5-0.7			✓	✓	✓				✓					
328B-1-1.2														✓
328B-1.5-1.7			✓	✓										
328B-2.2-2.4														✓
328B-2.7-2.9			✓	✓	✓				✓					
328B-3.1-3.3			✓	✓	✓				✓	✓				
328B-3.5-3.6			✓	✓										
328B-3.8-4														✓
328B-4.8-5			✓	✓	✓				✓	✓				
328B-5.8-6														✓
328B-6.8-7														✓
328B-7.8-8			✓	✓	✓				✓					
328C-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
328C-0.5-0.7			✓	✓	✓	✓		✓	✓		✓	✓		
328C-1-1.2														✓
328C-1.5-1.7			✓	✓								✓		
328C-2-2.2														✓
328C-2.6-2.8			✓	✓	✓				✓		✓			
328C-3.2-3.4			✓	✓	✓				✓		✓			
328C-3.7-3.9														✓
328C-4.1-4.3														✓
328C-4.8-5			✓	✓	✓				✓	✓		✓		
328C-5.8-6														✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
328C-6.8-7	✓		✓	✓	✓				✓					
328C-7.8-8			✓	✓										
335-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓			
335-0.5-0.7			✓	✓	✓				✓		✓			
335-1.1-1.3			✓	✓	✓				✓	✓				
335-1.7-1.9														✓
335-2.7-2.9														✓
335-3.7-3.9			✓	✓	✓				✓					
335-4.7-4.9	✓		✓	✓	✓				✓	✓				
335-5.7-5.9			✓	✓										
335-6.7-6.9														✓
336-0.2-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓			
336-0.4-0.5			✓	✓	✓				✓		✓			
336-0.6-0.7			✓	✓	✓				✓	✓	✓			
336-0.9-1														✓
336-1.1-1.2			✓	✓	✓				✓	✓	✓			
336-1.3-1.4														✓
336-1.4-1.5			✓	✓	✓	✓	✓	✓	✓	✓	✓			
336-1.6-1.7														✓
336-1.7-1.8														✓
336-1.9-2														✓
336-2.4-2.6			✓	✓	✓				✓	✓	✓			
336-2.7-2.9			✓	✓	✓				✓					
BD1/20230821			✓	✓	✓				✓			✓		
BD2/20230822	✓		✓	✓	✓				✓	✓				
BD1/20230823	✓		✓	✓	✓				✓	✓		✓		
BD6/20230824	✓		✓	✓	✓				✓	✓		✓		
BD7/20230824														✓
Trip Spike/20230818			✓											
Trip Spike/20230821			✓											
Trip Blank/20230818			✓											
Trip Blank/20230821			✓											

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	PFAS in Soils Short	Asbestos ID - materials	On Hold
312/PACM3-0.2													✓	
329-0-0.1											✓			

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ/NW		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
1	305	0.2	0.3	22/08/23	S	J,B	x													
2	305	0.5	0.7	22/08/23	S	J,B													x	
3	305	1	1.2	22/08/23	S	J,B					x									
4	305	1.5	1.7	22/08/23	S	J,B													x	
5	305	2	2.2	22/08/23	S	J						x								
6	305	2.8	3	22/08/23	S	J													x	
7	305	3.8	4	22/08/23	S	J							x							
8	305	4.8	5	22/08/23	S	J		x												
9	305	5.8	6	22/08/23	S	J							x							
10	305	6.8	7	22/08/23	S	J													x	
11	308	0.2	0.4	22/08/23	S	J,P,B	x											x		
12	308	0.5	0.7	22/08/23	S	J,P,B													x	
13	308	1	1.2	22/08/23	S	J,P,B					x									
14	308	1.7	1.9	22/08/23	S	J,P						x						x		

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:		**Transported to laboratory by:** DP	**Lab Ref. No:** 331534
Send results to:	Douglas Partners Pty Ltd		**Received by:** Adrian Lu
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:** (02) 9809 0666	**Date & Time:** 28/8/23 1320
Relinquished by:	Nathan Woodward 1:30pm, 25/8/23	**Date:** 25/08/2023 **Signed:**	**Signed:**

ICE 5°C

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	45163

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
15	308	2.8	3	22/08/23	S	J,P													x	
16	308	3.8	4	22/08/23	S	J,P													x	
17	308	4.8	5	22/08/23	S	J,P						x						x		
18	308	5.8	6	22/08/23	S	J,P							x							
19	308	6.8	7	22/08/23	S	J,P						x						x		
20	308	7.8	8	22/08/23	S	J,P													x	
21	308	8.8	9	22/08/23	S	J,P													x	
22	308	9.8	10	22/08/23	S	J,P							x	x						
23	308	10.8	11	22/08/23	S	J,P						x								
24	312	0.15	0.25	23/08/23	S	J,P,B	x											x		
25	312	0.4	0.6	23/08/23	S	J,P,B					x									
26	312	0.9	1.1	23/08/23	S	J,P,B													x	
27	312	1.5	1.7	23/08/23	S	J,P,B		x										x		
28	312	1.8	2	23/08/23	S	J,P,B						x								
29	312	2.8	3	23/08/23	S	J,P,B													x	
30	312	3.8	4	23/08/23	S	J,P,B							x							
31	312	4.8	5	23/08/23	S	J,P		x						x				x		
32	312	5.8	6	23/08/23	S	J,P							x							

33 1534
25/8/23 1320
AK

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
33	312	6.8	7	23/08/23	S	J,P						x		x				x		
34	312	7.8	8	23/08/23	S	J,P													x	
35	312	8.8	9	23/08/23	S	J,P													x	
36	312	9.8	10.1	23/08/23	S	J,P													x	
37	312	10.8	11	23/08/23	S	J,P						x		x				x		
38	313	0.4	0.5	23/08/23	S	J,P,B	x											x		
39	313	0.8	1	23/08/23	S	J,P,B		x										x		
40	313	1.4	1.6	23/08/23	S	J,P,B					x							x		
41	313	2.8	3	23/08/23	S	J,P						x								
42	313	3.8	4	23/08/23	S	J,P							x							
43	313	4.3	4.5	23/08/23	S	J,P						x		x	x					
44	313	4.8	5	23/08/23	S	J,P		x						x						
45	313	5.3	5.5	23/08/23	S	J,P							x	x	x			x		
46	313	5.8	6	23/08/23	S	J,P		x						x	x					
47	313	6.3	6.5	23/08/23	S	J,P							x	x						
48	313	6.8	7	23/08/23	S	J,P													x	
49	313	7.8	8	23/08/23	S	J,P						x		x				x		
50	313	8.8	9	23/08/23	S	J,P							x							331534 28/8/23 1320 AY
51	314	0.15	0.25	22/08/23	S	J,P,B			x									x		

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
52	314	0.6	0.8	22/08/23	S	J,P,B					x							x		
53	314	1	1.2	22/08/23	S	J,P,B													x	
54	314	1.7	1.9	22/08/23	S	J,P,B					x									
55	314	2	2.2	22/08/23	S	J,P						x						x		
56	314	2.8	3	22/08/23	S	J,P													x	
57	314	3.8	4	22/08/23	S	J,P													x	
58	314	4.8	5	22/08/23	S	J,P							x							
59	314	5.3	5.5	22/08/23	S	J,P						x		x				x		
60	314	5.8	6	22/08/23	S	J,P							x	x	x					
61	314	6.3	6.5	22/08/23	S	J,P							x	x	x					
62	314	6.8	7	22/08/23	S	J,P							x							
63	314	7.3	7.5	22/08/23	S	J,P						x		x						
64	314	7.8	8	22/08/23	S	J,P													x	
65	316	0.2	0.4	22/08/23	S	J,B			x											
66	316	0.5	0.7	22/08/23	S	J,B					x									
67	316	1	1.2	22/08/23	S	J,B													x	
68	316	1.4	1.6	22/08/23	S	J						x								
69	316	1.8	2	22/08/23	S	J													x	331534
70	316	2.8	3	22/08/23	S	J													x	25/8/23 1320 AM

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
71	316	3.8	4	22/08/23	S	J						x								
72	316	4.8	5	22/08/23	S	J		x						x						
73	316	5.8	6	22/08/23	S	J													x	
74	316	6.8	7	22/08/23	S	J						x		x						
75	316	7.8	8	22/08/23	S	J													x	
76	316	8.8	9	22/08/23	S	J													x	
77	316	9.8	10	22/08/23	S	J						x								
78	317	0.2	0.3	21/08/23	S	J,B	x													
79	317	0.5	0.7	21/08/23	S	J,B													x	
80	317	1	1.2	21/08/23	S	J,B			x											
81	317	1.7	1.9	21/08/23	S	J,B						x								
82	317	2.8	3	21/08/23	S	J,B													x	
83	317	3.8	4	21/08/23	S	J							x							
NR	317	4.8	5	21/08/23	S	J						x		x						
NR	317	5.8	6	21/08/23	S	J													x	
NR	317	6.8	7	21/08/23	S	J						x		x						
NR	317	7.8	8	21/08/23	S	J							x							
NR	317	8.8	9	21/08/23	S	J													x	331534 25/8/23 1320 AE
NR	317	9.8	10	21/08/23	S	J													x	

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
84	320	0.1	0.3	18/08/23	S	J,B			x											
85	320	0.4	0.6	18/08/23	S	J						x								
86	320	0.9	1.1	18/08/23	S	J													x	
87	320	1.8	2	18/08/23	S	J													x	
88	320C	0.2	0.4	18/08/23	S	J						x								
89	320C	0.5	0.7	18/08/23	S	J						x								
90	320C	1	1.2	18/08/23	S	J													x	
91	320C	1.8	2	18/08/23	S	J						x								
92	320D	0	0.1	18/08/23	S	J,B					x									
93	320D	0.3	0.4	18/08/23	S	J,B	x													
94	320D	0.5	0.7	18/08/23	S	J						x								
95	320D	0.8	1	18/08/23	S	J													x	
96	320D	1.8	2	18/08/23	S	J						x								
97	323	0.2	0.4	24/08/23	S	J,B	x													
98	323	0.7	0.9	24/08/23	S	J,B										x				
99	323	1.2	1.4	24/08/23	S	J,B													x	
100	323	1.7	1.9	24/08/23	S	J,B													x	
101	323	2.1	2.3	24/08/23	S	J,B	x							x						
102	323	2.5	2.7	24/08/23	S	J,B					x			x						

ES15536
25/8/23
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
103	323	3.1	3.3	24/08/23	S	J,B													x	
104	323	3.7	3.9	24/08/23	S	J							x							
105	323	4.7	4.9	24/08/23	S	J						x								
106	324	0.15	0.25	21/08/23	S	J,B	x													
107	324	0.5	0.7	21/08/23	S	J,B	x													
108	324	0.8	1	21/08/23	S	J,B													x	
109	324	1.1	1.3	21/08/23	S	J													x	
110	324	1.8	2	21/08/23	S	J				x										
111	325	0.2	0.4	21/08/23	S	J,P,B	x											x		
112	325	0.5	0.7	21/08/23	S	J,P,B													x	
113	325	0.8	1	21/08/23	S	J,P				x								x		
114	325	1.3	1.5	21/08/23	S	J,P													x	
115	325	1.8	2	21/08/23	S	J,P													x	
116	325	2.8	3	21/08/23	S	J,P													x	
117	325	3.8	4	21/08/23	S	J,P							x					x		
118	325	4.8	5	21/08/23	S	J,P						x						x		
119	325	5.8	6	21/08/23	S	J,P													x	
120	325	6.8	7	21/08/23	S	J,P						x		x				x		331534
121	325	7.8	8	21/08/23	S	J,P													x	25/8/23 1520 AH

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
122	326	0.15	0.25	21/08/23	S	J,P,B	x													
123	326	0.5	0.7	21/08/23	S	J,P,B	x											x		
124	326	1	1.2	21/08/23	S	J,P		x										x		
125	326	1.8	2	21/08/23	S	J,P													x	
-	326	1.8	2	21/08/23	S	J,P													x	
126	326	2.8	3	21/08/23	S	J,P													x	
127	326	3.3	3.5	21/08/23	S	J,P						x						x		
128	326	3.8	4	21/08/23	S	J,P							x							
129	326	4.3	4.5	21/08/23	S	J,P		x						x	x					
130	326	4.8	5	21/08/23	S	J,P							x	x						
131	326	5.3	5.5	21/08/23	S	J,P		x						x	x			x		
132	326	5.8	6	21/08/23	S	J,P							x	x	x					
133	326	6.3	6.5	21/08/23	S	J,P							x	x						
134	326	6.8	7	21/08/23	S	J,P		x						x	x					
135	326	7.3	7.5	21/08/23	S	J,P							x	x						
136	326	7.8	8	21/08/23	S	J,P							x							
137	326	8.3	8.5	21/08/23	S	J,P													x	
138	326	8.8	9	21/08/23	S	J,P													x	331534
139	327	0.2	0.4	18/08/23	S	J,P,B	x											x		25/8/23 1320 AH

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
140	327	0.5	0.7	18/08/23	S	J,P,B			x									x		
141	327	1	1.2	18/08/23	S	J,P													x	
142	327	1.8	2	18/08/23	S	J,P						x						x		
143	327	2.8	3	18/08/23	S	J,P													x	
144	327	3.8	4	18/08/23	S	J,P													x	
145	327	4.8	5	18/08/23	S	J,P						x		x				x		
146	327	5.8	6	18/08/23	S	J,P							x							
147	327	6.8	7	18/08/23	S	J,P						x		x				x		
148	327	7.8	8	18/08/23	S	J,P													x	
149	327	8.8	9	18/08/23	S	J,P													x	
150	328	0.1	0.3	21/08/23	S	J	x													Combo 8 only
151	328	0.4	0.6	21/08/23	S	J	x													Combo 8 only
152	328	0.8	1	21/08/23	S	J	x													Combo 8 only
153	328	1.3	1.5	21/08/23	S	J						x								
154	328	1.8	2	21/08/23	S	J													x	
155	328	2.1	2.3	21/08/23	S	J													x	
156	328	2.8	3	21/08/23	S	J						x								
157	328	3.5	3.7	21/08/23	S	J													x	
158	328	4.5	4.7	21/08/23	S	J													x	

331534
25/8/23
1320 AH

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
159	328A	0.1	0.3	21/08/23	S	J,B	x													
160	328A	0.5	0.7	21/08/23	S	J,B	x													
161	328A	1	1.2	21/08/23	S	J,B													x	
162	328A	1.5	1.7	21/08/23	S	J,B					x									
163	328A	2	2.2	21/08/23	S	J,B													x	
164	328A	2.4	2.6	21/08/23	S	J,B					x									
165	328A	3.3	3.5	21/08/23	S	J,B					x			x						
166	328A	3.8	4	21/08/23	S	J,B							x							
167	328A	4.1	4.3	21/08/23	S	J						x								
168	328A	4.8	5	21/08/23	S	J													x	
169	328B	0.1	0.3	24/08/23	S	J,B				x										
170	328B	0.5	0.7	24/08/23	S	J,B						x								
171	328B	1	1.2	24/08/23	S	J,B													x	
172	328B	1.5	1.7	24/08/23	S	J,B							x							
173	328B	2.2	2.4	24/08/23	S	J,B													x	
174	328B	2.7	2.9	24/08/23	S	J,B						x								
175	328B	3.1	3.3	24/08/23	S	J,B		x												
176	328B	3.5	3.6	24/08/23	S	J							x							331534
177	328B	3.8	4	24/08/23	S	J,B													x	25/8/23 1520 RV

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
178	328B	4.8	5	24/08/23	S	J,B		x												
179	328B	5.8	6	24/08/23	S	J,B													x	
180	328B	6.8	7	24/08/23	S	J													x	
181	328B	7.8	8	24/08/23	S	J						x								
182	328C	0.1	0.3	24/08/23	S	J,P,B	x											x		
183	328C	0.5	0.7	24/08/23	S	J,P,B			x									x		
184	328C	1	1.2	24/08/23	S	J,P,B													x	
185	328C	1.5	1.7	24/08/23	S	J,P,B							x					x		
186	328C	2	2.2	24/08/23	S	J,P,B													x	
187	328C	2.6	2.8	24/08/23	S	J,P,B					x									
188	328C	3.2	3.4	24/08/23	S	J,P,B					x									
189	328C	3.7	3.9	24/08/23	S	J,P,B													x	
190	328C	4.1	4.3	24/08/23	S	J,P													x	
191	328C	4.8	5	24/08/23	S	J,P		x										x		
192	328C	5.8	6	24/08/23	S	J,P													x	
193	328C	6.8	7	24/08/23	S	J,P						x		x						
194	328C	7.8	8	24/08/23	S	J,P							x							
195	335	0.2	0.4	24/08/23	S	J,B,P	x													3315 34
196	335	0.5	0.7	24/08/23	S	J,B,P					x									25/8/23 1320 AY

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
197	335	1.1	1.3	24/08/23	S	J,B,P		x												
198	335	1.7	1.9	24/08/23	S	J,P													x	
199	335	2.7	2.9	24/08/23	S	J,P													x	
200	335	3.7	3.9	24/08/23	S	J,P						x								
201	335	4.7	4.9	24/08/23	S	J,P		x						x						
202	335	5.7	5.9	24/08/23	S	J,P							x							
203	335	6.7	6.9	24/08/23	S	J,P													x	
204	336	0.2	0.3	24/08/23	S	J,B	x													
205	336	0.4	0.5	24/08/23	S	J,B					x									
206	336	0.6	0.7	24/08/23	S	J,B											x			
207	336	0.9	1	24/08/23	S	J,B													x	
208	336	1.1	1.2	24/08/23	S	J,B											x			
209	336	1.3	1.4	24/08/23	S	J,B													x	
210	336	1.4	1.5	24/08/23	S	J,B	x													
211	336	1.6	1.7	24/08/23	S	J,B													x	
212	336	1.7	1.8	24/08/23	S	J,B													x	
213	336	1.9	2	24/08/23	S	J,B													x	
214	336	2.4	2.6	24/08/23	S	J,B											x			331534
215	336	2.7	2.9	24/08/23	S	J						x								25/8/23

13 Aw

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
	BD1/20230818	-	-	18/08/23	S	J												Please forward for interlab anlaysis		
	BD2/20230818	-	-	18/08/23	S	J												Please forward for interlab anlaysis		
	BD3/20230818	-	-	18/08/23	S	J,P												Please forward for interlab anlaysis		
216	BD1/20230821	-	-	21/08/23	S	J,P						x						x		
	BD2/20230821	-	-	21/08/23	S	J												Please forward for interlab anlaysis		
	BD1/20230822	-	-	22/08/23	S	J												Please forward for interlab anlaysis		
217	BD2/20230822	-	-	22/08/23	S	J		x						x						
218	BD1/20230823	-	-	23/08/23	S	J,P		x						x				x		
	BD1/20230824	-	-	24/08/23	S	J												Please forward for interlab anlaysis		
	BD2/20230824	-	-	24/08/23	S	J,P												Please forward for interlab anlaysis		
	BD3/20230824	-	-	24/08/23	S	J												Please forward for interlab anlaysis		
	BD4/20230824	-	-	24/08/23	S	J												Please forward for interlab anlaysis		
	BD5/20230824	-	-	24/08/23	S	J												Please forward for interlab anlaysis		
219	BD6/20230824	-	-	24/08/23	S	J		x						x				x		
220	BD7/20230824	-	-	24/08/23	S	J													x	
221	Trip Spike/20230818		-	18/08/23	S	J							x							
222	Trip Spike/20230821		-	21/08/23	S	J							x							
223	Trip Blank/20230818		-	18/08/23	S	J							x							331539
224	Trip Blank/20230821		-	21/08/23	S	J							x							331543

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Asbestos ID	Notes/ Preservation/ Additional Requirements
225	312/PACM3	0.2		23/08/23	M	B													x	
226	BD1/20230803																			
227	BD2/20230814																			
228	BD1/20230815																			
229	BD2/20230815																			
230	BD3/20230815																			
~~231~~	~~315C~~	~~0.2-4.4~~																		
232	~~2~~ 329																			

33 15-34
13 20
25 18 1-23
2 5 A4

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CERTIFICATE OF ANALYSIS 331534-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	additional analysis
Date samples received	25/08/2023
Date completed instructions received	11/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	18/09/2023
Date of Issue	26/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Phalak Inthakesone, Organics Development Manager, Sydney
Priya Samarawickrama, Senior Chemist
Sean McAlary, Chemist
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil				
Our Reference		331534-A-50	331534-A-64	331534-A-73
Your Reference	UNITS	313	314	316
Depth		8.8-9	7.8-8	5.8-6
Date Sampled		23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil
Date Extracted	-	12/09/2023	12/09/2023	12/09/2023
Date Analysed	-	14/09/2023	14/09/2023	14/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1
chloroform	mg/kg	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1
Toluene	mg/kg	4	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1

VOCs in soil				
Our Reference		331534-A-50	331534-A-64	331534-A-73
Your Reference	UNITS	313	314	316
Depth		8.8-9	7.8-8	5.8-6
Date Sampled		23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil
Ethylbenzene	mg/kg	14	14	<1
bromoform	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	33	11	<2
styrene	mg/kg	<1	3	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1
o-Xylene	mg/kg	14	6	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1
isopropylbenzene	mg/kg	1	1	<1
bromobenzene	mg/kg	<1	<1	<1
n-propyl benzene	mg/kg	3	7	<1
2-chlorotoluene	mg/kg	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	9	14	<1
tert-butyl benzene	mg/kg	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	28	38	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1
sec-butyl benzene	mg/kg	<1	2	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	2	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1
n-butyl benzene	mg/kg	3	4	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1
Surrogate Dibromofluoromethane	%	93	99	98
Surrogate aaa-Trifluorotoluene	%	99	95	94
Surrogate Toluene-d_8	%	113	99	99
Surrogate 4-Bromofluorobenzene	%	107	97	97

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		331534-A-64	331534-A-73	331534-A-137	331534-A-138
Your Reference	UNITS	314	316	326	326
Depth		7.8-8	5.8-6	8.3-8.5	8.8-9
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023
TRH C_6 - C_9	mg/kg	68	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	280	<25	47	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	250	<25	43	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	14	<1	<1	<1
m+p-xylene	mg/kg	11	<2	2	<2
o-Xylene	mg/kg	6	<1	1	1
Naphthalene	mg/kg	39	<1	<1	<1
Total +ve Xylenes	mg/kg	16	<1	4	1
Surrogate aaa-Trifluorotoluene	%	95	94	68	93

svTRH (C10-C40) in Soil					
Our Reference		331534-A-64	331534-A-73	331534-A-137	331534-A-138
Your Reference	UNITS	314	316	326	326
Depth		7.8-8	5.8-6	8.3-8.5	8.8-9
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	410	99	160	86
TRH C_{15} - C_{28}	mg/kg	140	140	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	560	230	160	90
TRH >C_{10} -C_{16}	mg/kg	270	69	77	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	230	69	77	<50
TRH >C_{16} -C_{34}	mg/kg	150	160	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	420	230	80	<50
Surrogate o-Terphenyl	%	99	94	95	85

Aromatic & Aliphatic TPH			
Our Reference		331534-A-72	331534-A-73
Your Reference	UNITS	316	316
Depth		4.8-5	5.8-6
Date Sampled		22/08/23	22/08/23
Type of sample		Soil	Soil
Date extracted	-	12/09/2023	12/09/2023
Date analysed	-	20/09/2023	20/09/2023
>C10-C16 Aliphatic	mg/kg	1,500	<50
>C16-C35 Aliphatic	mg/kg	<100	<100
>C35 Aliphatic	mg/kg	<100	<100
>C10-C16 Aromatic	mg/kg	710	<50
>C16-C35 Aromatic	mg/kg	1,800	<50
Surrogate 1-chlorooctadecane	%	86	75

sTPH in Soil (C10-C40)-Silica						
Our Reference		331534-A-42	331534-A-44	331534-A-63	331534-A-64	331534-A-72
Your Reference	UNITS	313	313	314	314	316
Depth		3.8-4	4.8-5	7.3-7.5	7.8-8	4.8-5
Date Sampled		23/08/23	23/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023	17/09/2023
TPH C_{10} - C_{14}	mg/kg	550	1,200	390	230	4,600
TPH C_{15} - C_{28}	mg/kg	<100	<100	110	<100	<1000
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<1000
TPH >C_{10} -C_{16}	mg/kg	490	670	260	160	2,800
TPH >C_{16} -C_{34}	mg/kg	<100	<100	110	<100	<1000
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<1000
Surrogate o-Terphenyl	%	89	84	79	72	73

sTPH in Soil (C10-C40)-Silica						
Our Reference		331534-A-73	331534-A-74	331534-A-77	331534-A-84	331534-A-92
Your Reference	UNITS	316	316	316	320	320D
Depth		5.8-6	6.8-7	9.8-10	0.1-0.3	0-0.1
Date Sampled		22/08/23	22/08/23	22/08/23	18/08/2023	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023	17/09/2023
TPH C_{10} - C_{14}	mg/kg	50	<50	<50	<50	<50
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100	460	200
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	400	320
TPH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TPH >C_{16} -C_{34}	mg/kg	<100	<100	<100	770	430
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	190	220
Surrogate o-Terphenyl	%	74	90	89	100	86

sTPH in Soil (C10-C40)-Silica					
Our Reference		331534-A-137	331534-A-159	331534-A-182	331534-A-217
Your Reference	UNITS	326	328A	328C	BD2/20230822
Depth		8.3-8.5	0.1-0.3	0.1-0.3	-
Date Sampled		21/08/23	21/08/23	24/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023
TPH C_{10} - C_{14}	mg/kg	97	<50	<50	3,000
TPH C_{15} - C_{28}	mg/kg	<100	<100	<100	<1000
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	<1000
TPH >C_{10} -C_{16}	mg/kg	54	<50	<50	1,800
TPH >C_{16} -C_{34}	mg/kg	<100	<100	100	<1000
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<1000
Surrogate o-Terphenyl	%	76	76	77	78

PAHs in Soil		
Our Reference		331534-A-64
Your Reference	UNITS	314
Depth		7.8-8
Date Sampled		22/08/23
Type of sample		Soil
Date extracted	-	13/09/2023
Date analysed	-	14/09/2023
Naphthalene	mg/kg	19
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	19
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	102

Organochlorine Pesticides in soil		
Our Reference		331534-A-124
Your Reference	UNITS	326
Depth		1-1.2
Date Sampled		21/08/23
Type of sample		Soil
Date extracted	-	13/09/2023
Date analysed	-	14/09/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	0.1
Surrogate TCMX	%	106

PCBs in Soil			
Our Reference		331534-A-39	331534-A-205
Your Reference	UNITS	313	336
Depth		0.8-1	0.4-0.5
Date Sampled		23/08/23	24/08/23
Type of sample		Soil	Soil
Date extracted	-	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	0.1
Surrogate TCMX	%	107	102

Acid Extractable Cations in Soil						
Our Reference		331534-A-41	331534-A-42	331534-A-44	331534-A-46	331534-A-47
Your Reference	UNITS	313	313	313	313	313
Depth		2.8-3	3.8-4	4.8-5	5.8-6	6.3-6.5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	10	10	40	30	40
Potassium	mg/kg	70	80	70	70	70
Magnesium	mg/kg	150	170	130	170	170
Sodium	mg/kg	20	20	<10	<10	20

Acid Extractable Cations in Soil						
Our Reference		331534-A-48	331534-A-49	331534-A-50	331534-A-55	331534-A-60
Your Reference	UNITS	313	313	313	314	314
Depth		6.8-7	7.8-8	8.8-9	2-2.2	5.8-6
Date Sampled		23/08/23	23/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	70	70	60	<10	50
Potassium	mg/kg	70	60	60	40	90
Magnesium	mg/kg	120	90	100	80	200
Sodium	mg/kg	10	10	10	20	<10

Acid Extractable Cations in Soil						
Our Reference		331534-A-61	331534-A-64	331534-A-81	331534-A-124	331534-A-129
Your Reference	UNITS	314	314	317	326	326
Depth		6.3-6.5	7.8-8	1.7-1.9	1-1.2	4.3-4.5
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	40	50	140	70	30
Potassium	mg/kg	60	70	60	50	70
Magnesium	mg/kg	130	120	130	80	200
Sodium	mg/kg	10	10	10	<10	<10

Acid Extractable Cations in Soil					
Our Reference		331534-A-130	331534-A-131	331534-A-137	331534-A-237
Your Reference	UNITS	326	326	326	326 - [TRIPLICATE]
Depth		4.8-5	5.3-5.5	8.3-8.5	8.3-8.5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	30	30	110	240
Potassium	mg/kg	80	80	50	80
Magnesium	mg/kg	190	210	100	140
Sodium	mg/kg	<10	70	<10	20

Misc Soil - Inorg						
Our Reference		331534-A-65	331534-A-66	331534-A-68	331534-A-71	331534-A-72
Your Reference	UNITS	316	316	316	316	316
Depth		0.2-0.4	0.5-0.7	1.4-1.6	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331534-A-73	331534-A-74	331534-A-77	331534-A-78	331534-A-81
Your Reference	UNITS	316	316	316	317	317
Depth		5.8-6	6.8-7	9.8-10	0.2-0.3	1.7-1.9
Date Sampled		22/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg					
Our Reference		331534-A-83	331534-A-217	331534-A-235	331534-A-236
Your Reference	UNITS	317	BD2/20230822	316 - Phenol Repeat	BD2/20230822 - Phenol Repeat
Depth		3.8-4	-	4.8-5	-
Date Sampled		21/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	6	12	<5	<5

PFAS in Soils Short		
Our Reference		331534-A-201
Your Reference	UNITS	335
Depth		4.7-4.9
Date Sampled		24/08/23
Type of sample		Soil
Date prepared	-	13/09/2023
Date analysed	-	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	96
Surrogate $^{13}C_2$ *PFOA*	%	94
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	100
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99
Total Positive PFHxS & PFOS	µg/kg	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1
Total Positive PFAS	µg/kg	<0.1

Moisture						
Our Reference		331534-A-48	331534-A-64	331534-A-73	331534-A-137	331534-A-138
Your Reference	UNITS	313	314	316	326	326
Depth		6.8-7	7.8-8	5.8-6	8.3-8.5	8.8-9
Date Sampled		23/08/23	22/08/23	22/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	17	15	18	17	16

Misc Inorg - Soil						
Our Reference		331534-A-41	331534-A-42	331534-A-44	331534-A-46	331534-A-47
Your Reference	UNITS	313	313	313	313	313
Depth		2.8-3	3.8-4	4.8-5	5.8-6	6.3-6.5
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units	5.2	5.7	5.8	6.1	5.9
Electrical Conductivity 1:5 soil:water	µS/cm	21	17	20	12	10
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	<10	<10	<10	<10	<10
Soluble Bicarb as $CaCO_3$ *	mg/kg	78	72	92	72	74
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	78	72	92	72	74

Misc Inorg - Soil						
Our Reference		331534-A-48	331534-A-49	331534-A-50	331534-A-55	331534-A-60
Your Reference	UNITS	313	313	313	314	314
Depth		6.8-7	7.8-8	8.8-9	2-2.2	5.8-6
Date Sampled		23/08/23	23/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units	6.3	5.5	5.9	5.2	6.3
Electrical Conductivity 1:5 soil:water	µS/cm	23	27	23	18	13
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	<10	20	<10	<10	<10
Soluble Bicarb as $CaCO_3$ *	mg/kg	86	92	84	65	95
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	86	92	84	65	95

Misc Inorg - Soil						
Our Reference		331534-A-61	331534-A-64	331534-A-81	331534-A-124	331534-A-129
Your Reference	UNITS	314	314	317	326	326
Depth		6.3-6.5	7.8-8	1.7-1.9	1-1.2	4.3-4.5
Date Sampled		22/08/23	22/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units	6.4	5.2	6.8	5.9	5.2
Electrical Conductivity 1:5 soil:water	µS/cm	31	27	19	25	17
Chloride, Cl 1:5 soil:water	mg/kg	10	<10	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	<10	21	<10	<10	<10
Soluble Bicarb as $CaCO_3$ *	mg/kg	86	64	100	100	72
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	86	64	100	100	72

Misc Inorg - Soil				
Our Reference		331534-A-130	331534-A-131	331534-A-137
Your Reference	UNITS	326	326	326
Depth		4.8-5	5.3-5.5	8.3-8.5
Date Sampled		21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units	5.4	5.5	5.6
Electrical Conductivity 1:5 soil:water	µS/cm	13	20	23
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	<10
Sulphate, SO4 1:5 soil:water	mg/kg	<10	<10	<10
Soluble Bicarb as $CaCO_3$ *	mg/kg	72	72	100
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	72	72	100

TCLP Preparation - Acid						
Our Reference		331534-A-17	331534-A-31	331534-A-84	331534-A-88	331534-A-92
Your Reference	UNITS	308	312	320	320C	320D
Depth		4.8-5	4.8-5	0.1-0.3	0.2-0.4	0-0.1
Date Sampled		22/08/23	23/08/23	18/08/2023	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	6.2	6.0	6.0	7.9	6.8
pH of soil TCLP (after HCl)	pH units	1.7	1.7	1.7	1.7	1.7
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	5.0

TCLP Preparation - Acid						
Our Reference		331534-A-93	331534-A-97	331534-A-111	331534-A-122	331534-A-139
Your Reference	UNITS	320D	323	325	326	327
Depth		0.3-0.4	0.2-0.4	0.2-0.4	0.15-0.25	0.2-0.4
Date Sampled		18/08/23	24/08/23	21/08/23	21/08/2023	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	9.6	9.6	9.1	9.0	8.9
pH of soil TCLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.7
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.1	5.0	5.0	5.0

TCLP Preparation - Acid						
Our Reference		331534-A-150	331534-A-151	331534-A-159	331534-A-162	331534-A-169
Your Reference	UNITS	328	328	328A	328A	328B
Depth		0.1-0.3	0.4-0.6	0.1-0.3	1.5-1.7	0.1-0.3
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.8	8.6	8.3	8.4	8.2
pH of soil TCLP (after HCl)	pH units	1.7	1.7	1.7	1.7	1.7
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.1	5.0	4.9	5.0

TCLP Preparation - Acid						
Our Reference		331534-A-174	331534-A-182	331534-A-183	331534-A-185	331534-A-187
Your Reference	UNITS	328B	328C	328C	328C	328C
Depth		2.7-2.9	0.1-0.3	0.5-0.7	1.5-1.7	2.6-2.8
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.1	8.2	8.2	8.1	7.9
pH of soil TCLP (after HCl)	pH units	1.7	1.7	1.7	1.7	1.7
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	4.9

TCLP Preparation - Acid				
Our Reference		331534-A-201	331534-A-204	331534-A-216
Your Reference	UNITS	335	336	BD1/20230821
Depth		4.7-4.9	0.2-0.3	-
Date Sampled		24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.0	7.8	7.9
pH of soil TCLP (after HCl)	pH units	1.7	1.7	1.7
Extraction fluid used		1	1	1
pH of final Leachate	pH units	5.0	5.1	5.0

PAHs in TCLP (USEPA 1311)		
Our Reference		331534-A-111
Your Reference	UNITS	325
Depth		0.2-0.4
Date Sampled		21/08/23
Type of sample		Soil
Date extracted	-	13/09/2023
Date analysed	-	13/09/2023
Naphthalene in TCLP	mg/L	0.0008
Acenaphthylene in TCLP	mg/L	<0.0001
Acenaphthene in TCLP	mg/L	<0.0001
Fluorene in TCLP	mg/L	<0.0001
Phenanthrene in TCLP	mg/L	<0.0001
Anthracene in TCLP	mg/L	<0.0001
Fluoranthene in TCLP	mg/L	<0.0001
Pyrene in TCLP	mg/L	<0.0001
Benzo(a)anthracene in TCLP	mg/L	<0.0001
Chrysene in TCLP	mg/L	<0.0001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.0002
Benzo(a)pyrene in TCLP	mg/L	<0.0001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.0001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.0001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.0001
Total +ve PAH's	mg/L	0.0008
Surrogate p-Terphenyl-d14	%	110

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		331534-A-84	331534-A-88	331534-A-92	331534-A-93	331534-A-97
Your Reference	UNITS	320	320C	320D	320D	323
Depth		0.1-0.3	0.2-0.4	0-0.1	0.3-0.4	0.2-0.4
Date Sampled		18/08/2023	18/08/23	18/08/23	18/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Chromium	mg/L	0.38	[NA]	0.06	0.19	[NA]
Lead	mg/L	5.5	14	6.5	0.56	0.50
Mercury	mg/L	0.001	[NA]	<0.0005	<0.0005	[NA]
Nickel	mg/L	0.2	[NA]	0.05	[NA]	[NA]

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		331534-A-122	331534-A-139	331534-A-150	331534-A-151	331534-A-159
Your Reference	UNITS	326	327	328	328	328A
Depth		0.15-0.25	0.2-0.4	0.1-0.3	0.4-0.6	0.1-0.3
Date Sampled		21/08/2023	18/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Chromium	mg/L	[NA]	[NA]	[NA]	[NA]	0.04
Lead	mg/L	0.44	0.62	1.6	3.7	0.92
Mercury	mg/L	[NA]	[NA]	<0.0005	0.003	<0.0005

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		331534-A-162	331534-A-169	331534-A-174	331534-A-182	331534-A-183
Your Reference	UNITS	328A	328B	328B	328C	328C
Depth		1.5-1.7	0.1-0.3	2.7-2.9	0.1-0.3	0.5-0.7
Date Sampled		21/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Chromium	mg/L	[NA]	[NA]	[NA]	0.08	[NA]
Lead	mg/L	0.2	7.3	0.38	0.97	75
Mercury	mg/L	<0.0005	<0.0005	[NA]	<0.0005	[NA]
Nickel	mg/L	[NA]	[NA]	[NA]	<0.02	[NA]

Metals from Leaching Fluid pH 2.9 or 5			
Our Reference		331534-A-187	331534-A-204
Your Reference	UNITS	328C	336
Depth		2.6-2.8	0.2-0.3
Date Sampled		24/08/23	24/08/23
Type of sample		Soil	Soil
Date extracted	-	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023
Chromium	mg/L	0.02	[NA]
Lead	mg/L	0.37	0.93
Mercury	mg/L	<0.0005	[NA]
Nickel	mg/L	0.02	[NA]

PFAS in TCLP Short						
Our Reference		331534-A-17	331534-A-31	331534-A-139	331534-A-182	331534-A-185
Your Reference	UNITS	308	312	327	328C	328C
Depth		4.8-5	4.8-5	0.2-0.4	0.1-0.3	1.5-1.7
Date Sampled		22/08/23	23/08/23	18/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	14/09/2023	14/09/2023	14/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	0.03	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.02	0.04	0.02	<0.01	0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	0.03	<0.01
6:2 FTS	µg/L	0.02	<0.01	0.01	0.16	0.03
8:2 FTS	µg/L	<0.02	<0.02	<0.02	0.08	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	98	95	98	96	96
Surrogate $^{13}C_2$ *PFOA*	%	105	101	97	99	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	96	99	93	92	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	103	104	100	97	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	99	101	100	101	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	93	103	102	104	102
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	109	109	115	133	124
Total Positive PFHxS & PFOS	µg/L	0.02	0.04	0.05	<0.01	0.01
Total Positive PFOS & PFOA	µg/L	0.02	0.04	0.02	0.03	0.01
Total Positive PFAS	µg/L	0.04	0.04	0.06	0.28	0.04

PFAS in TCLP Short			
Our Reference		331534-A-201	331534-A-216
Your Reference	UNITS	335	BD1/20230821
Depth		4.7-4.9	-
Date Sampled		24/08/23	21/08/23
Type of sample		Soil	Soil
Date prepared	-	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.05
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	92	93
Surrogate $^{13}C_2$ *PFOA*	%	101	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%	100	98
Extracted ISTD $^{13}C_4$ *PFOS*	%	106	108
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	98	103
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	113	114
Total Positive PFHxS & PFOS	µg/L	<0.01	0.05
Total Positive PFOS & PFOA	µg/L	<0.01	0.05
Total Positive PFAS	µg/L	<0.01	0.05

ASLP Preparation - Neutral						
Our Reference		331534-A-17	331534-A-31	331534-A-44	331534-A-47	331534-A-50
Your Reference	UNITS	308	312	313	313	313
Depth		4.8-5	4.8-5	4.8-5	6.3-6.5	8.8-9
Date Sampled		22/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.9	6.2	5.8	6.2	6.0

ASLP Preparation - Neutral						
Our Reference		331534-A-60	331534-A-61	331534-A-62	331534-A-63	331534-A-64
Your Reference	UNITS	314	314	314	314	314
Depth		5.8-6	6.3-6.5	6.8-7	7.3-7.5	7.8-8
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	5.9	6.0	6.1	6.1	5.4

ASLP Preparation - Neutral						
Our Reference		331534-A-84	331534-A-88	331534-A-92	331534-A-93	331534-A-97
Your Reference	UNITS	320	320C	320D	320D	323
Depth		0.1-0.3	0.2-0.4	0-0.1	0.3-0.4	0.2-0.4
Date Sampled		18/08/2023	18/08/23	18/08/23	18/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.2	9.1	7.4	10.1	9.4

ASLP Preparation - Neutral						
Our Reference		331534-A-111	331534-A-117	331534-A-122	331534-A-123	331534-A-124
Your Reference	UNITS	325	325	326	326	326
Depth		0.2-0.4	3.8-4	0.15-0.25	0.5-0.7	1-1.2
Date Sampled		21/08/23	21/08/23	21/08/2023	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	8.1	6.0	7.5	6.2	8.2

ASLP Preparation - Neutral						
Our Reference		331534-A-139	331534-A-147	331534-A-150	331534-A-151	331534-A-159
Your Reference	UNITS	327	327	328	328	328A
Depth		0.2-0.4	6.8-7	0.1-0.3	0.4-0.6	0.1-0.3
Date Sampled		18/08/23	18/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.1	6.0	6.1	6.3	6.0

ASLP Preparation - Neutral						
Our Reference		331534-A-169	331534-A-170	331534-A-174	331534-A-182	331534-A-183
Your Reference	UNITS	328B	328B	328B	328C	328C
Depth		0.1-0.3	0.5-0.7	2.7-2.9	0.1-0.3	0.5-0.7
Date Sampled		24/08/23	24/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.1	5.9	5.8	6.2	5.5

ASLP Preparation - Neutral					
Our Reference		331534-A-185	331534-A-187	331534-A-201	331534-A-216
Your Reference	UNITS	328C	328C	335	BD1/20230821
Depth		1.5-1.7	2.6-2.8	4.7-4.9	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
pH of final Leachate	pH units	5.8	5.5	6.3	6.5

BTEX in Zero Headspace ASLP						
Our Reference		331534-A-42	331534-A-44	331534-A-46	331534-A-47	331534-A-48
Your Reference	UNITS	313	313	313	313	313
Depth		3.8-4	4.8-5	5.8-6	6.3-6.5	6.8-7
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.4	6.0	7.4	6.3	6.8
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	18/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	18/09/2023
Benzene	µg/L	<1	<10	<10	<10	<10
Toluene	µg/L	<1	110	73	31	380
Ethylbenzene	µg/L	14	730	1,000	230	810
m+p-xylene	µg/L	42	4,700	4,400	2,400	1,100
o-xylene	µg/L	44	2,300	1,800	1,100	460
Surrogate Dibromofluoromethane	%	114	106	103	106	104
Surrogate Toluene-d8	%	118	114	112	110	105
Surrogate 4-Bromofluorobenzene	%	102	102	102	102	103

BTEX in Zero Headspace ASLP						
Our Reference		331534-A-49	331534-A-50	331534-A-61	331534-A-64	331534-A-72
Your Reference	UNITS	313	313	314	314	316
Depth		7.8-8	8.8-9	6.3-6.5	7.8-8	4.8-5
Date Sampled		23/08/23	23/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.3	6.4	6.9	6.6	4.6
Date extracted	-	18/09/2023	18/09/2023	18/09/2023	24/09/2023	24/09/2023
Date analysed	-	18/09/2023	18/09/2023	20/09/2023	25/09/2023	25/09/2023
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	5	21	2	1	10
Ethylbenzene	µg/L	53	89	250	83	40
m+p-xylene	µg/L	110	370	180	70	270
o-xylene	µg/L	46	150	100	37	270
Surrogate Dibromofluoromethane	%	102	101	100	109	111
Surrogate Toluene-d8	%	85	98	97	99	99
Surrogate 4-Bromofluorobenzene	%	91	90	97	104	102

BTEX in Zero Headspace ASLP						
Our Reference		331534-A-129	331534-A-130	331534-A-131	331534-A-136	331534-A-137
Your Reference	UNITS	326	326	326	326	326
Depth		4.3-4.5	4.8-5	5.3-5.5	7.8-8	8.3-8.5
Date Sampled		21/08/23	21/08/23	21/08/23	21/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.0	7.9	8.0	7.2	7.1
Date extracted	-	24/09/2023	24/09/2023	24/09/2023	24/09/2023	24/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Benzene	µg/L	<1	<10	<10	<1	<1
Toluene	µg/L	13	40	860	52	8
Ethylbenzene	µg/L	66	390	1,200	40	10
m+p-xylene	µg/L	470	2,200	5,800	270	47
o-xylene	µg/L	350	1,600	3,900	160	35
Surrogate Dibromofluoromethane	%	114	112	109	117	103
Surrogate Toluene-d8	%	101	101	99	100	99
Surrogate 4-Bromofluorobenzene	%	101	99	101	102	102

BTEX in Zero Headspace ASLP		
Our Reference		331534-A-138
Your Reference	UNITS	326
Depth		8.8-9
Date Sampled		21/08/23
Type of sample		Soil
pH of final Leachate	pH units	6.2
Date extracted	-	24/09/2023
Date analysed	-	25/09/2023
Benzene	µg/L	<1
Toluene	µg/L	44
Ethylbenzene	µg/L	64
m+p-xylene	µg/L	270
o-xylene	µg/L	160
Surrogate Dibromofluoromethane	%	103
Surrogate Toluene-d8	%	100
Surrogate 4-Bromofluorobenzene	%	99

PAHs in Water Leach						
Our Reference		331534-A-44	331534-A-47	331534-A-50	331534-A-60	331534-A-61
Your Reference	UNITS	313	313	313	314	314
Depth		4.8-5	6.3-6.5	8.8-9	5.8-6	6.3-6.5
Date Sampled		23/08/23	23/08/23	23/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	14/09/2023	14/09/2023	14/09/2023
Naphthalene in ASLP	µg/L	230	87	22	480	200
Acenaphthylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	106	88	86	90	93

PAHs in Water Leach				
Our Reference		331534-A-62	331534-A-63	331534-A-64
Your Reference	UNITS	314	314	314
Depth		6.8-7	7.3-7.5	7.8-8
Date Sampled		22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023
Naphthalene in ASLP	µg/L	350	730	390
Acenaphthylene in ASLP	µg/L	<0.1	<0.1	<0.1
Acenaphthene in ASLP	µg/L	<0.1	<0.1	<0.1
Fluorene in ASLP	µg/L	<0.1	<0.1	<0.1
Phenanthrene in ASLP	µg/L	<0.1	<0.1	<0.1
Anthracene in ASLP	µg/L	<0.1	<0.1	<0.1
Fluoranthene in ASLP	µg/L	<0.1	<0.1	<0.1
Pyrene in ASLP	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1
Chrysene in ASLP	µg/L	<0.1	<0.1	<0.1
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	93	101	90

OCP in Water Leach						
Our Reference		331534-A-84	331534-A-97	331534-A-111	331534-A-122	331534-A-123
Your Reference	UNITS	320	323	325	326	326
Depth		0.1-0.3	0.2-0.4	0.2-0.4	0.15-0.25	0.5-0.7
Date Sampled		18/08/2023	24/08/23	21/08/23	21/08/2023	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	14/09/2023	14/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	18/09/2023	16/09/2023	13/09/2023	13/09/2023	13/09/2023
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	2.1	0.4	<0.2	<0.2
pp-DDE	µg/L	0.6	3.3	0.3	2.6	2.8
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	0.6	14	<0.2	3.2	2
Endosulfan II	µg/L	<0.2	4.3	<0.2	<0.2	<0.2
pp-DDT	µg/L	7.8	1	0.6	3.4	14
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	65	83	91	94	97

OCP in Water Leach		
Our Reference		331534-A-124
Your Reference	UNITS	326
Depth		1-1.2
Date Sampled		21/08/23
Type of sample		Soil
Date extracted	-	13/09/2023
Date analysed	-	13/09/2023
HCB	µg/L	<0.2
alpha-BHC	µg/L	<0.2
gamma-BHC	µg/L	<0.2
beta-BHC	µg/L	<0.2
Heptachlor	µg/L	<0.2
delta-BHC	µg/L	<0.2
Aldrin	µg/L	<0.2
Heptachlor Epoxide	µg/L	<0.2
gamma-Chlordane	µg/L	<0.2
alpha-Chlordane	µg/L	<0.2
Endosulfan I	µg/L	<0.2
pp-DDE	µg/L	1
Dieldrin	µg/L	<0.2
Endrin	µg/L	<0.2
pp-DDD	µg/L	0.6
Endosulfan II	µg/L	<0.2
pp-DDT	µg/L	0.4
Endrin Aldehyde	µg/L	<0.2
Endosulfan Sulphate	µg/L	<0.2
Methoxychlor	µg/L	<0.2
Surrogate TCMX	%	86

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		331534-A-84	331534-A-88	331534-A-92	331534-A-93	331534-A-150
Your Reference	UNITS	320	320C	320D	320D	328
Depth		0.1-0.3	0.2-0.4	0-0.1	0.3-0.4	0.1-0.3
Date Sampled		18/08/2023	18/08/23	18/08/23	18/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Arsenic	µg/L	<1	[NA]	6	3	2
Cadmium	µg/L	0.3	[NA]	<0.1	<0.1	0.2
Chromium	µg/L	150	[NA]	34	410	9
Copper	µg/L	8	[NA]	3	2	26
Lead	µg/L	190	890	23	29	320
Mercury	µg/L	24	[NA]	0.1	<0.05	3.0
Nickel	µg/L	4	[NA]	<1	<1	<1
Zinc	µg/L	63	[NA]	11	2	170

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		331534-A-151	331534-A-159	331534-A-169	331534-A-170	331534-A-174
Your Reference	UNITS	328	328A	328B	328B	328B
Depth		0.4-0.6	0.1-0.3	0.1-0.3	0.5-0.7	2.7-2.9
Date Sampled		21/08/23	21/08/23	24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Arsenic	µg/L	<1	2	1	2	46
Cadmium	µg/L	<0.1	0.4	0.1	<0.1	0.3
Chromium	µg/L	27	39	13	7	8
Copper	µg/L	13	160	38	7	14
Lead	µg/L	620	400	280	27	10
Mercury	µg/L	7.5	10	2.0	1.2	0.1
Nickel	µg/L	<1	4	<1	<1	4
Zinc	µg/L	85	160	580	66	200

Metals from Neutral Leaching Fluid ICPMS				
Our Reference		331534-A-182	331534-A-183	331534-A-187
Your Reference	UNITS	328C	328C	328C
Depth		0.1-0.3	0.5-0.7	2.6-2.8
Date Sampled		24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023
Arsenic	µg/L	3	<1	4
Cadmium	µg/L	0.4	0.2	0.2
Chromium	µg/L	59	8	8
Copper	µg/L	35	22	4
Lead	µg/L	300	1,200	19
Mercury	µg/L	1.8	4.0	0.05
Nickel	µg/L	2	<1	3
Zinc	µg/L	310	140	660

PFAS in ASLP Short						
Our Reference		331534-A-17	331534-A-31	331534-A-117	331534-A-139	331534-A-147
Your Reference	UNITS	308	312	325	327	327
Depth		4.8-5	4.8-5	3.8-4	0.2-0.4	6.8-7
Date Sampled		22/08/23	23/08/23	21/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01	0.05	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	0.02	<0.01	0.02	0.02
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	0.01	<0.01
6:2 FTS	µg/L	0.02	<0.01	0.02	0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	93	95	95	98	96
Surrogate $^{13}C_2$ PFOA	%	102	98	100	101	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	94	96	96	97
Extracted ISTD $^{13}C_4$ *PFOS*	%	106	103	103	99	99
Extracted ISTD $^{13}C_4$ *PFOA*	%	103	103	102	103	100
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	102	99	107	108	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	100	107	102	110	112
Total Positive PFHxS & PFOS	µg/L	0.01	0.02	<0.01	0.07	0.02
Total Positive PFOS & PFOA	µg/L	0.01	0.02	<0.01	0.03	0.02
Total Positive PFAS	µg/L	0.03	0.02	0.02	0.1	0.02

PFAS in ASLP Short					
Our Reference		331534-A-182	331534-A-185	331534-A-201	331534-A-216
Your Reference	UNITS	328C	328C	335	BD1/20230821
Depth		0.1-0.3	1.5-1.7	4.7-4.9	-
Date Sampled		24/08/23	24/08/23	24/08/23	21/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	18/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	18/09/2023	13/09/2023	13/09/2023	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	<0.01	<0.01	0.04
Perfluorooctanoic acid PFOA	µg/L	0.03	<0.01	<0.01	<0.01
6:2 FTS	µg/L	0.18	0.03	<0.01	<0.01
8:2 FTS	µg/L	0.05	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	99	95	95	93
Surrogate $^{13}C_2$ PFOA	%	103	102	102	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92	94	99	100
Extracted ISTD $^{13}C_4$ *PFOS*	%	98	100	105	106
Extracted ISTD $^{13}C_4$ *PFOA*	%	92	101	107	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	97	108	113	112
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	124	110	112	114
Total Positive PFHxS & PFOS	µg/L	<0.01	<0.01	<0.01	0.04
Total Positive PFOS & PFOA	µg/L	0.03	<0.01	<0.01	0.04
Total Positive PFAS	µg/L	0.26	0.03	<0.01	0.04

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-021	Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. Fractionation with pentane through a silica gel column for aliphatics and DCM for aromatics.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-022/025 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.
Org-029A	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. TOPA analyses use a pre-spiked, labelled internal standard PFAS precursor to assess the oxidation efficiency. The efficiency of removal by oxidation is recorded in the report. Additionally, dilutions applied (if required) to ensure sufficient precursor oxidation are also recorded and are available on request. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date Extracted	-			12/09/2023	73	12/09/2023	12/09/2023		12/09/2023	[NT]
Date Analysed	-			13/09/2023	73	14/09/2023	14/09/2023		13/09/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	119	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	73	<1	<1	0	120	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	107	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	112	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	73	<0.2	<0.2	0	115	[NT]
dibromomethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	73	<1	<1	0	96	[NT]
bromodichloromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	107	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	73	<0.5	<0.5	0	113	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	73	<1	<1	0	103	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	73	<1	<1	0	110	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	114	[NT]
bromoform	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	73	<2	<2	0	112	[NT]
styrene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
o-Xylene	mg/kg	1	Org-023	<1	73	<1	<1	0	112	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	110	73	98	98	0	98	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	79	73	94	95	1	105	[NT]
Surrogate Toluene-d_8	%		Org-023	101	73	99	99	0	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	81	73	97	97	0	97	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-A-64
Date extracted	-			12/09/2023	73	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			13/09/2023	73	14/09/2023	14/09/2023		13/09/2023	13/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	73	<25	<25	0	113	108
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	73	<25	<25	0	113	108
Benzene	mg/kg	0.2	Org-023	<0.2	73	<0.2	<0.2	0	115	94
Toluene	mg/kg	0.5	Org-023	<0.5	73	<0.5	<0.5	0	113	92
Ethylbenzene	mg/kg	1	Org-023	<1	73	<1	<1	0	114	138
m+p-xylene	mg/kg	2	Org-023	<2	73	<2	<2	0	112	109
o-Xylene	mg/kg	1	Org-023	<1	73	<1	<1	0	112	109
Naphthalene	mg/kg	1	Org-023	<1	73	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	79	73	94	95	1	105	91

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	137	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	137	14/09/2023	14/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	137	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	137	47	86	59	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	137	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	137	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	137	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	137	2	2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	137	1	2	67	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	137	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	137	68	67	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-A-64
Date extracted	-			12/09/2023	64	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			13/09/2023	64	13/09/2023	13/09/2023		13/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	64	410	330	22	122	94
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	64	140	130	7	114	103
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	64	<100	<100	0	86	100
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	64	270	220	20	122	94
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	64	150	130	14	114	103
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	64	<100	<100	0	86	100
Surrogate o-Terphenyl	%		Org-020	99	64	99	95	4	102	95

QUALITY CONTROL: Aromatic & Aliphatic TPH						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			12/09/2023	[NT]	[NT]	[NT]	[NT]	12/09/2023	[NT]
Date analysed	-			17/09/2023	[NT]	[NT]	[NT]	[NT]	17/09/2023	[NT]
>C10-C16 Aliphatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	83	[NT]
>C16-C35 Aliphatic	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	104	[NT]
>C35 Aliphatic	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
>C10-C16 Aromatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
>C16-C35 Aromatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	126	[NT]
Surrogate 1-chlorooctadecane	%		Org-020	82	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			12/09/2023	42	12/09/2023	12/09/2023		12/09/2023	[NT]
Date analysed	-			17/09/2023	42	17/09/2023	17/09/2023		17/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	42	550	480	14	81	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	42	<100	100	0	91	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	42	<100	<100	0	114	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	42	490	420	15	81	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	42	<100	<100	0	91	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	42	<100	<100	0	114	[NT]
Surrogate o-Terphenyl	%		Org-020	74	42	89	87	2	83	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	64	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	64	17/09/2023	17/09/2023		[NT]	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	64	230	250	8	[NT]	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	64	<100	<100	0	[NT]	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	64	<100	<100	0	[NT]	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	64	160	180	12	[NT]	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	64	<100	<100	0	[NT]	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	64	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	64	72	92	24	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-A-64
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	13/09/2023
Date analysed	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	14/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	#
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	95
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	92
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	102
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	96
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	99
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	87
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	88	98
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	107	[NT]	[NT]	[NT]	[NT]	105	105

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	140	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	107	[NT]	[NT]	[NT]	[NT]	107	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	107	[NT]	[NT]	[NT]	[NT]	107	[NT]

QUALITY CONTROL: Acid Extractable Cations in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	331534-A-64
Date prepared	-			13/09/2023	137	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			14/09/2023	137	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Calcium	mg/kg	10	Metals-020	<10	137	110	210	62	122	124
Potassium	mg/kg	10	Metals-020	<10	137	50	90	57	113	101
Magnesium	mg/kg	10	Metals-020	<10	137	100	160	46	122	127
Sodium	mg/kg	10	Metals-020	<10	137	<10	20	67	88	104

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	331534-A-81
Date prepared	-			12/09/2023	73	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			12/09/2023	73	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	73	<5	<5	0	100	103

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	78	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	78	12/09/2023	12/09/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	78	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	116	[NT]	[NT]	[NT]	[NT]	112	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	122	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	331534-A-42
Date prepared	-			14/09/2023	41	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Date analysed	-			14/09/2023	41	14/09/2023	14/09/2023		14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	41	5.2	5.2	0	99	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	41	21	22	5	102	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	41	<10	<10	0	103	77
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	41	<10	<10	0	98	75
Soluble Bicarb as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	41	78	75	4	[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	41	<50	<50	0	[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	41	<50	<50	0	[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	41	78	75	4	110	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	81	14/09/2023	14/09/2023		[NT]	[NT]
Date analysed	-			[NT]	81	14/09/2023	14/09/2023		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	81	6.8	6.8	0	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	81	19	19	0	[NT]	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	81	<10	<10	0	[NT]	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	[NT]	81	<10	<10	0	[NT]	[NT]
Soluble Bicarb as $CaCO_3$ *	mg/kg	50	Inorg-006	[NT]	81	100	[NT]		[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	50	Inorg-006	[NT]	81	<50	[NT]		[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	50	Inorg-006	[NT]	81	<50	[NT]		[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	50	Inorg-006	[NT]	81	100	[NT]		[NT]	[NT]

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Naphthalene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	77	[NT]
Acenaphthylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	69	[NT]
Fluorene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	74	[NT]
Phenanthrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	74	[NT]
Anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	75	[NT]
Pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	79	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	64	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.0002	Org-022/025	<0.0002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	78	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	104	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331534-A-182
Date extracted	-			15/09/2023	84	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	84	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Chromium	mg/L	0.01	Metals-020	<0.01	84	0.38	0.40	5	103	106
Lead	mg/L	0.03	Metals-020	<0.03	84	5.5	5.5	0	106	99
Mercury	mg/L	0.0005	Metals-021	<0.0005	84	0.001	0.002	67	103	103
Nickel	mg/L	0.02	Metals-020	<0.02	84	0.2	0.2	0	105	97

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	139	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	139	15/09/2023	15/09/2023		[NT]	[NT]
Lead	mg/L	0.03	Metals-020	[NT]	139	0.62	0.78	23	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	331534-A-31
Date prepared	-			13/09/2023	17	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			13/09/2023	17	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	17	<0.01	<0.01	0	113	113
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	17	0.02	0.02	0	102	101
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	17	<0.01	<0.01	0	111	113
6:2 FTS	µg/L	0.01	Org-029	<0.01	17	0.02	0.02	0	103	111
8:2 FTS	µg/L	0.02	Org-029	<0.02	17	<0.02	<0.02	0	113	112
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	96	17	98	90	9	92	92
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	97	17	105	101	4	101	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	96	17	96	95	1	94	94
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	104	17	103	105	2	105	105
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	104	17	99	101	2	99	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	91	17	93	97	4	92	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	97	17	109	103	6	100	103

QUALITY CONTROL: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331534-A-182
Date prepared	-			[NT]	139	13/09/2023	13/09/2023		[NT]	13/09/2023
Date analysed	-			[NT]	139	14/09/2023	14/09/2023		[NT]	14/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	[NT]	139	0.03	0.03	0	[NT]	125
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	[NT]	139	0.02	0.03	40	[NT]	113
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	[NT]	139	<0.01	0.01	0	[NT]	123
6:2 FTS	µg/L	0.01	Org-029	[NT]	139	0.01	0.02	67	[NT]	110
8:2 FTS	µg/L	0.02	Org-029	[NT]	139	<0.02	<0.02	0	[NT]	116
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	139	98	94	4	[NT]	96
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	139	97	97	0	[NT]	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	139	93	94	1	[NT]	89
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	139	100	99	1	[NT]	95
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	139	100	101	1	[NT]	98

QUALITY CONTROL: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331534-A-182
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	[NT]	139	102	100	2	[NT]	100
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	[NT]	139	115	124	8	[NT]	124

QUALITY CONTROL: BTEX in Zero Headspace ASLP					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			15/09/2023	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			15/09/2023	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	101	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: PAHs in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Naphthalene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Acenaphthylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Fluorene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Phenanthrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzo(a)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(bjk)fluoranthene in ASLP	µg/L	0.2	Org-022/025 ASLP	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025 ASLP	104	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: OCP in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	[NT]
Date analysed	-			16/09/2023	[NT]	[NT]	[NT]	[NT]	16/09/2023	[NT]
HCB	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	87	[NT]
gamma-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
Heptachlor	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
delta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	86	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	61	[NT]
gamma-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	91	[NT]
Dieldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	91	[NT]
Endrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
pp-DDD	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	75	[NT]
Endosulfan II	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
Methoxychlor	µg/L	0.2	SEO-005	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331534-A-159
Date extracted	-			18/09/2023	84	18/09/2023	18/09/2023		18/09/2023	18/09/2023
Date analysed	-			18/09/2023	84	18/09/2023	18/09/2023		18/09/2023	18/09/2023
Arsenic	µg/L	1	Metals-022	<1	84	<1	<1	0	111	104
Cadmium	µg/L	0.1	Metals-022	<0.1	84	0.3	0.4	29	108	100
Chromium	µg/L	1	Metals-022	<1	84	150	180	18	100	92
Copper	µg/L	1	Metals-022	<1	84	8	9	12	101	#
Lead	µg/L	1	Metals-022	<1	84	190	250	27	96	#
Mercury	µg/L	0.05	Metals-021	<0.05	84	24	26	8	94	#
Nickel	µg/L	1	Metals-022	<1	84	4	5	22	101	105
Zinc	µg/L	1	Metals-022	<1	84	63	75	17	102	#

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	187	18/09/2023	18/09/2023		[NT]	[NT]
Date analysed	-			[NT]	187	18/09/2023	18/09/2023		[NT]	[NT]
Arsenic	µg/L	1	Metals-022	[NT]	187	4	2	67	[NT]	[NT]
Cadmium	µg/L	0.1	Metals-022	[NT]	187	0.2	0.1	67	[NT]	[NT]
Chromium	µg/L	1	Metals-022	[NT]	187	8	7	13	[NT]	[NT]
Copper	µg/L	1	Metals-022	[NT]	187	4	6	40	[NT]	[NT]
Lead	µg/L	1	Metals-022	[NT]	187	19	18	5	[NT]	[NT]
Mercury	µg/L	0.05	Metals-021	[NT]	187	0.05	0.05	0	[NT]	[NT]
Nickel	µg/L	1	Metals-022	[NT]	187	3	2	40	[NT]	[NT]
Zinc	µg/L	1	Metals-022	[NT]	187	660	760	14	[NT]	[NT]

QUALITY CONTROL: PFAS in ASLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331534-A-31
Date prepared	-			13/09/2023	17	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			13/09/2023	17	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029A	<0.01	17	<0.01	<0.01	0	114	115
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029A	<0.01	17	0.01	0.01	0	111	102
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029A	<0.01	17	<0.01	<0.01	0	113	116
6:2 FTS	µg/L	0.01	Org-029A	<0.01	17	0.02	0.02	0	114	114
8:2 FTS	µg/L	0.02	Org-029A	<0.02	17	<0.02	<0.02	0	112	117
Surrogate $^{13}C_8$ PFOS	%		Org-029A	93	17	93	94	1	97	93
Surrogate $^{13}C_2$ PFOA	%		Org-029A	103	17	102	101	1	96	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029A	98	17	99	98	1	95	93
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029A	104	17	106	100	6	96	102
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029A	102	17	103	99	4	101	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029A	102	17	102	101	1	94	96
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029A	102	17	100	106	6	101	104

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Holding time exceedance for PH/EC and Soluble Alkalinity as CaCO3*.

PAHs in Soil - # Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 331534-a-64 has caused interference.

Acid Extractable Cations in Soil: The laboratory RPD acceptance criteria has been exceeded for 331534-A-137 for Ca, K and Mg. Therefore a triplicate result has been issued as laboratory sample number 331534-A-237.

Metals-ASLP Neutral (ICP-MS) - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

sTPH in Soil (C10-C40)-Silica - The PQL for 331534-A-72,217 has been raised due to the sample matrix thereby requiring a dilution.

BTEX in Zero Headspace ASLP - The PQL for samples 331534-A-44,46,47,48,130 and 131 has been raised due to the high concentration of analytes in the samples, resulting in the sample/s requiring a dilution.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	331534-A
Date Sample Received	25/08/2023
Date Instructions Received	11/09/2023
Date Results Expected to be Reported	18/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
305-0.2-0.3																										✓
305-0.5-0.7																										✓
305-1-1.2																										✓
305-1.5-1.7																										✓
305-2-2.2																										✓
305-2.8-3																										✓
305-3.8-4																										✓
305-4.8-5																										✓
305-5.8-6																										✓
305-6.8-7																										✓
308-0.2-0.4																										✓
308-0.5-0.7																										✓
308-1-1.2																										✓
308-1.7-1.9																										✓
308-2.8-3																										✓
308-3.8-4																										✓
308-4.8-5														✓						✓	✓				✓	
308-5.8-6																										✓
308-6.8-7																										✓
308-7.8-8																										✓

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
308-8.8-9																										✓
308-9.8-10																										✓
308-10.8-11																										✓
312-0.15-0.25																										✓
312-0.4-0.6																										✓
312-0.9-1.1																										✓
312-1.5-1.7																										✓
312-1.8-2																										✓
312-2.8-3																										✓
312-3.8-4																										✓
312-4.8-5														✓						✓	✓				✓	
312-5.8-6																										✓
312-6.8-7																										✓
312-7.8-8																										✓
312-8.8-9																										✓
312-9.8-10.1																										✓
312-10.8-11																										✓
313-0.4-0.5																										✓
313-0.8-1								✓																		
313-1.4-1.6																										✓

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
313-2.8-3											✓	✓														
313-3.8-4			✓								✓	✓	✓													
313-4.3-4.5																										✓
313-4.8-5			✓								✓	✓	✓								✓	✓				
313-5.3-5.5																										✓
313-5.8-6											✓	✓	✓													
313-6.3-6.5											✓	✓	✓								✓	✓				
313-6.8-7											✓	✓	✓													
313-7.8-8											✓	✓	✓													
313-8.8-9	✓										✓	✓	✓								✓	✓				
314-0.15-0.25																										✓
314-0.6-0.8																										✓
314-1-1.2																										✓
314-1.7-1.9																										✓
314-2-2.2											✓	✓														
314-2.8-3																										✓
314-3.8-4																										✓
314-4.8-5																										✓
314-5.3-5.5																										✓
314-5.8-6											✓	✓									✓	✓				

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
314-6.3-6.5											✓	✓	✓								✓	✓				
314-6.8-7																					✓	✓				
314-7.3-7.5			✓																		✓	✓				
314-7.8-8	✓		✓	✓	✓	✓					✓	✓	✓								✓	✓				
316-0.2-0.4									✓																	
316-0.5-0.7									✓																	
316-1-1.2																										✓
316-1.4-1.6									✓																	
316-1.8-2																										✓
316-2.8-3																										✓
316-3.8-4									✓																	
316-4.8-5		✓	✓						✓				✓													
316-5.8-6	✓	✓	✓	✓	✓				✓																	
316-6.8-7			✓						✓																	
316-7.8-8																										✓
316-8.8-9																										✓
316-9.8-10			✓						✓																	
317-0.2-0.3									✓																	
317-0.5-0.7																										✓
317-1-1.2																										✓

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317-1.7-1.9									✓		✓	✓														
317-2.8-3																										✓
317-3.8-4									✓																	
320-0.1-0.3			✓											✓		✓	✓	✓	✓		✓		✓	✓		
320-0.4-0.6																										✓
320-0.9-1.1																										✓
320-1.8-2																										✓
320C-0.2-0.4														✓			✓				✓			✓		
320C-0.5-0.7																										✓
320C-1-1.2																										✓
320C-1.8-2																										✓
320D-0-0.1			✓											✓		✓	✓	✓	✓		✓			✓		
320D-0.3-0.4														✓		✓	✓	✓			✓			✓		
320D-0.5-0.7																										✓
320D-0.8-1																										✓
320D-1.8-2																										✓
323-0.2-0.4														✓			✓				✓		✓			
323-0.7-0.9																										✓
323-1.2-1.4																										✓
323-1.7-1.9																										✓

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323-2.1-2.3																										✓
323-2.5-2.7																										✓
323-3.1-3.3																										✓
323-3.7-3.9																										✓
323-4.7-4.9																										✓
324-0.15-0.25																										✓
324-0.5-0.7																										✓
324-0.8-1																										✓
324-1.1-1.3																										✓
324-1.8-2																										✓
325-0.2-0.4														✓	✓						✓		✓			
325-0.5-0.7																										✓
325-0.8-1																										✓
325-1.3-1.5																										✓
325-1.8-2																										✓
325-2.8-3																										✓
325-3.8-4																					✓				✓	
325-4.8-5																										✓
325-5.8-6																										✓
325-6.8-7																										✓

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325-7.8-8																										✓
326-0.15-0.25														✓			✓				✓		✓			
326-0.5-0.7																					✓		✓			
326-1-1.2							✓				✓	✓									✓		✓			
326-1.8-2																										✓
326-2.8-3																										✓
326-3.3-3.5																										✓
326-3.8-4																										✓
326-4.3-4.5											✓	✓	✓													
326-4.8-5											✓	✓	✓													
326-5.3-5.5											✓	✓	✓													
326-5.8-6																										✓
326-6.3-6.5																										✓
326-6.8-7																										✓
326-7.3-7.5																										✓
326-7.8-8													✓													
326-8.3-8.5			✓	✓	✓						✓	✓	✓													
326-8.8-9				✓	✓								✓													
327-0.2-0.4														✓			✓			✓	✓				✓	
327-0.5-0.7																										✓

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327-1-1.2																										✓
327-1.8-2																										✓
327-2.8-3																										✓
327-3.8-4																										✓
327-4.8-5																										✓
327-5.8-6																										✓
327-6.8-7																					✓				✓	
327-7.8-8																										✓
327-8.8-9																										✓
328-0.1-0.3														✓			✓	✓			✓			✓		
328-0.4-0.6														✓			✓	✓			✓			✓		
328-0.8-1																										✓
328-1.3-1.5																										✓
328-1.8-2																										✓
328-2.1-2.3																										✓
328-2.8-3																										✓
328-3.5-3.7																										✓
328-4.5-4.7																										✓
328A-0.1-0.3			✓											✓		✓	✓	✓			✓			✓		
328A-0.5-0.7																										✓

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328A-1-1.2																										✓
328A-1.5-1.7														✓			✓	✓								
328A-2-2.2																										✓
328A-2.4-2.6																										✓
328A-3.3-3.5																										✓
328A-3.8-4																										✓
328A-4.1-4.3																										✓
328A-4.8-5																										✓
328B-0.1-0.3														✓			✓	✓			✓			✓		
328B-0.5-0.7																					✓			✓		
328B-1-1.2																										✓
328B-1.5-1.7																										✓
328B-2.2-2.4																										✓
328B-2.7-2.9														✓			✓				✓			✓		
328B-3.1-3.3																										✓
328B-3.5-3.6																										✓
328B-3.8-4																										✓
328B-4.8-5																										✓
328B-5.8-6																										✓
328B-6.8-7																										✓

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
328B-7.8-8																										✓
328C-0.1-0.3			✓											✓		✓	✓	✓	✓	✓	✓			✓	✓	
328C-0.5-0.7														✓			✓				✓			✓		
328C-1-1.2																										✓
328C-1.5-1.7														✓						✓	✓				✓	
328C-2-2.2																										✓
328C-2.6-2.8														✓		✓	✓	✓	✓		✓			✓		
328C-3.2-3.4																										✓
328C-3.7-3.9																										✓
328C-4.1-4.3																										✓
328C-4.8-5																										✓
328C-5.8-6																										✓
328C-6.8-7																										✓
328C-7.8-8																										✓
335-0.2-0.4																										✓
335-0.5-0.7																										✓
335-1.1-1.3																										✓
335-1.7-1.9																										✓
335-2.7-2.9																										✓
335-3.7-3.9																										✓

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
335-4.7-4.9										✓				✓						✓	✓				✓	
335-5.7-5.9																										✓
335-6.7-6.9																										✓
336-0.2-0.3														✓			✓									
336-0.4-0.5								✓																		
336-0.6-0.7																										✓
336-0.9-1																										✓
336-1.1-1.2																										✓
336-1.3-1.4																										✓
336-1.4-1.5																										✓
336-1.6-1.7																										✓
336-1.7-1.8																										✓
336-1.9-2																										✓
336-2.4-2.6																										✓
336-2.7-2.9																										✓
BD1/20230821														✓						✓	✓				✓	
BD2/20230822			✓						✓																	
BD1/20230823																										✓
BD6/20230824																										✓
BD7/20230824																										✓

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Sample ID	VOCs in soil	Aromatic & Aliphatic TPH	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	PFAS in Soils Short	Misc Inorg - Soil	Acid ExtractableCations in Soil	BTEX in Zero Headspace ASLP	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	On Hold
Trip Spike/20230818																										✓
Trip Spike/20230821																										✓
Trip Blank/20230818																										✓
Trip Blank/20230821																										✓
312/PACM3-0.2																										✓
329-0-0.1																										✓
312 - [TRIPLICATE]-0.15-0.25																										✓
316 - [TRIPLICATE]-0.2-0.4																										✓
328 - [TRIPLICATE]-0.1-0.3																										✓
328A - [TRIPLICATE]-0.1-0.3																										✓
335 - [TRIPLICATE]-0.2-0.4																										✓
336 - [TRIPLICATE]-0.2-0.3																										✓
320D - [TRIPLICATE]-0-0.1																										✓
326 - [TRIPLICATE]-0.15-0.25																										✓
316 - Phenol Repeat-4.8-5									✓																	
BD2/20230822 - Phenol Repeat									✓																	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 331776

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	6 Soil
Date samples received	30/08/2023
Date completed instructions received	30/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	06/09/2023
Date of Issue	28/09/2023
Reissue Details	This report replaces R00 due to an amendment to project name.

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Results Approved By
Dragana Tomas, Senior Chemist
Loren Bardwell, Development Chemist
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil			
Our Reference		331776-1	331776-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date Extracted	-	30/08/2023	30/08/2023
Date Analysed	-	04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1
Chloromethane	mg/kg	<1	<1
Vinyl Chloride	mg/kg	<1	<1
Bromomethane	mg/kg	<1	<1
Chloroethane	mg/kg	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1
1,1-dichloroethane	mg/kg	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1
bromochloromethane	mg/kg	<1	<1
chloroform	mg/kg	<1	<1
2,2-dichloropropane	mg/kg	<1	<1
1,2-dichloroethane	mg/kg	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1
1,1-dichloropropene	mg/kg	<1	<1
Cyclohexane	mg/kg	<1	<1
carbon tetrachloride	mg/kg	<1	<1
Benzene	mg/kg	<0.2	<0.2
dibromomethane	mg/kg	<1	<1
1,2-dichloropropane	mg/kg	<1	<1
trichloroethene	mg/kg	<1	<1
bromodichloromethane	mg/kg	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1
Toluene	mg/kg	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1
dibromochloromethane	mg/kg	<1	<1
1,2-dibromoethane	mg/kg	<1	<1
tetrachloroethene	mg/kg	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1
chlorobenzene	mg/kg	<1	<1

VOCs in soil			
Our Reference		331776-1	331776-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Ethylbenzene	mg/kg	<1	<1
bromoform	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
styrene	mg/kg	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1
o-Xylene	mg/kg	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1
isopropylbenzene	mg/kg	<1	<1
bromobenzene	mg/kg	<1	<1
n-propyl benzene	mg/kg	<1	<1
2-chlorotoluene	mg/kg	<1	<1
4-chlorotoluene	mg/kg	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1
tert-butyl benzene	mg/kg	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1
sec-butyl benzene	mg/kg	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1
4-isopropyl toluene	mg/kg	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1
n-butyl benzene	mg/kg	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1
hexachlorobutadiene	mg/kg	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1
Surrogate Dibromofluoromethane	%	107	108
Surrogate aaa-Trifluorotoluene	%	94	86
Surrogate Toluene-d_8	%	104	104
Surrogate 4-Bromofluorobenzene	%	98	99

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		331776-1	331776-3	331776-4
Your Reference	UNITS	317	317	317
Depth		4.8-5	6.8-7	7.8-8
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	30/08/2023	30/08/2023	30/08/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	86	90

svTRH (C10-C40) in Soil				
Our Reference		331776-1	331776-3	331776-4
Your Reference	UNITS	317	317	317
Depth		4.8-5	6.8-7	7.8-8
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	30/08/2023	30/08/2023	30/08/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	210	<50	<50
TRH C_{15} - C_{28}	mg/kg	24,000	2,100	<100
TRH C_{29} - C_{36}	mg/kg	360	<100	110
Total +ve TRH (C10-C36)	mg/kg	25,000	2,100	110
TRH >C_{10} -C_{16}	mg/kg	200	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	200	<50	<50
TRH >C_{16} -C_{34}	mg/kg	25,000	2,300	2,200
TRH >C_{34} -C_{40}	mg/kg	670	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	26,000	2,300	2,200
Surrogate o-Terphenyl	%	91	82	82

PAHs in Soil			
Our Reference		331776-1	331776-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date extracted	-	30/08/2023	30/08/2023
Date analysed	-	04/09/2023	04/09/2023
Naphthalene	mg/kg	<1	<0.1
Acenaphthylene	mg/kg	<1	<0.1
Acenaphthene	mg/kg	<1	<0.1
Fluorene	mg/kg	<1	<0.1
Phenanthrene	mg/kg	<1	<0.1
Anthracene	mg/kg	<1	<0.1
Fluoranthene	mg/kg	<1	<0.1
Pyrene	mg/kg	<1	<0.1
Benzo(a)anthracene	mg/kg	<1	<0.1
Chrysene	mg/kg	<1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<2	<0.2
Benzo(a)pyrene	mg/kg	<0.5	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<1	<0.1
Benzo(g,h,i)perylene	mg/kg	<1	<0.1
Total +ve PAH's	mg/kg	<0.5	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<5	<0.5
Surrogate p-Terphenyl-d14	%	#	89

Acid Extractable metals in soil			
Our Reference		331776-1	331776-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date prepared	-	31/08/2023	31/08/2023
Date analysed	-	31/08/2023	31/08/2023
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	2	1
Copper	mg/kg	<1	<1
Lead	mg/kg	<1	<1
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	<1	<1
Zinc	mg/kg	2	2

Moisture				
Our Reference		331776-1	331776-3	331776-4
Your Reference	UNITS	317	317	317
Depth		4.8-5	6.8-7	7.8-8
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	30/08/2023	30/08/2023	30/08/2023
Date analysed	-	31/08/2023	31/08/2023	31/08/2023
Moisture	%	7.6	17	17

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331776-3
Date Extracted	-			30/08/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Date Analysed	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	114	111
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	1	<1	<1	0	120	116
2,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	108	104
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	106	103
1,1-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	105	103
dibromomethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	105	104
bromodichloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	107	102
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	110	107
1,3-dichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	1	<1	<1	0	102	96
1,2-dibromoethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	1	<1	<1	0	90	91
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	111	107
bromoform	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	115	113
styrene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331776-3
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	117	113
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	106	1	107	107	0	100	101
Surrogate aaa-Trifluorotoluene	%		Org-023	96	1	94	93	1	92	90
Surrogate Toluene-d_8	%		Org-023	101	1	104	103	1	100	101
Surrogate 4-Bromofluorobenzene	%		Org-023	99	1	98	98	0	99	100

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331776-3
Date extracted	-			30/08/2023	1	30/08/2023	30/08/2023		30/08/2023	30/08/2023
Date analysed	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	111	109
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	111	109
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	105	103
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	110	107
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	111	107
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	115	113
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	117	113
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	96	1	94	93	1	92	90

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			30/08/2023	[NT]	[NT]	[NT]	[NT]	30/08/2023	[NT]
Date analysed	-			02/09/2023	[NT]	[NT]	[NT]	[NT]	02/09/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	71	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			30/08/2023	[NT]	[NT]	[NT]	[NT]	30/08/2023	[NT]
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	104	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	82	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			31/08/2023	[NT]	[NT]	[NT]	[NT]	31/08/2023	[NT]
Date analysed	-			31/08/2023	[NT]	[NT]	[NT]	[NT]	31/08/2023	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	107	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	104	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

PAH_S:
Percent recovery for the surrogate/matrix spike is not possible to report due to interference from analytes (other than those being tested) in sample/s 331776-1.

The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 331776-1.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219607.01 Banksmeadow
Envirolab Reference	331776
Date Sample Received	30/08/2023
Date Instructions Received	30/08/2023
Date Results Expected to be Reported	06/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	6 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	On Hold
317-4.8-5	✓	✓	✓	✓	✓	
317-5.8-6						✓
317-6.8-7	✓	✓	✓	✓	✓	
317-7.8-8		✓	✓			
317-8.8-9						✓
317-9.8-10						✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ/NW
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				12 Ashley St, Chatswood NSW 2067
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		(02) 9910 6200 samplereceipt@envirolab.com.au

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
1	305	0.2	0.3	22/08/23	S	J,B	x													
2	305	0.5	0.7	22/08/23	S	J,B														
3	305	1	1.2	22/08/23	S	J,B					x									
4	305	1.5	1.7	22/08/23	S	J,B														
5	305	2	2.2	22/08/23	S	J						x								
6	305	2.8	3	22/08/23	S	J														
7	305	3.8	4	22/08/23	S	J							x							
8	305	4.8	5	22/08/23	S	J		x												
9	305	5.8	6	22/08/23	S	J							x							
10	305	6.8	7	22/08/23	S	J													x	
11	308	0.2	0.4	22/08/23	S	J,P,B	x											x		
12	308	0.5	0.7	22/08/23	S	J,P,B													x	
13	308	1	1.2	22/08/23	S	J,P,B					x									
14	308	1.7	1.9	22/08/23	S	J,P						x						x		

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 331776
Date Received: 30/08/23
Time Received: 1535
Received By: SKplacm
Temp: Cool/Ambient S.C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666
Relinquished by:	Nathan Woodward 1:30pm, 25/8/23	**Date:**	25/08/2023
		Signed:	

LAB RECEIPT	
Lab Ref. No:	331536
Received by:	ADMIN
Date & Time:	28/8/23 1320
Signed:	

ICE 5°C

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 25/08/2023

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 8AN	Combo 4	Combo 6AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
71	316	3.8	4	22/08/23	S	J						x								
72	316	4.8	5	22/08/23	S	J		x						x						
73	316	5.8	6	22/08/23	S	J													x	
74	316	6.8	7	22/08/23	S	J						x		x						
75	316	7.8	8	22/08/23	S	J													x	
76	316	8.8	9	22/08/23	S	J													x	
77	316	9.8	10	22/08/23	S	J						x								
78	317	0.2	0.3	21/08/23	S	J,B	x													
79	317	0.5	0.7	21/08/23	S	J,B													x	#331776 30/08/23 SG
80	317	1	1.2	21/08/23	S	J,B			x											
81	317	1.7	1.9	21/08/23	S	J,B						x								
82	317	2.8	3	21/08/23	S	J,B													x	
83	317	3.8	4	21/08/23	S	J							x							
1	~~NR~~	317	4.8	5	21/08/23	S	J						x		x					
2	~~NR~~	317	5.8	6	21/08/23	S	J												x	
3	~~NR~~	317	6.8	7	21/08/23	S	J						x		x					
4	~~NR~~	317	7.8	8	21/08/23	S	J							x						
5	~~NR~~	317	8.8	9	21/08/23	S	J												x	331534 25/8/23 1520 AE
6	~~NR~~	317	9.8	10	21/08/23	S	J												x	

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CERTIFICATE OF ANALYSIS 331776-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	additional analysis
Date samples received	30/08/2023
Date completed instructions received	11/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	18/09/2023
Date of Issue	28/09/2023
Reissue Details	This report replaces R01 due to an amendment to project name

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Results Approved By
Diego Bigolin, Inorganics Supervisor
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Steven Luong, Senior Chemist
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		331776-A-2	331776-A-5	331776-A-6
Your Reference	UNITS	317	317	317
Depth		5.8-6	8.8-9	9.8-10
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	102	93

svTRH (C10-C40) in Soil				
Our Reference		331776-A-2	331776-A-5	331776-A-6
Your Reference	UNITS	317	317	317
Depth		5.8-6	8.8-9	9.8-10
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023
TRH C_{10} - C_{14}	mg/kg	63	<50	56
TRH C_{15} - C_{28}	mg/kg	7,100	1,800	4,500
TRH C_{29} - C_{36}	mg/kg	240	340	350
Total +ve TRH (C10-C36)	mg/kg	7,400	2,100	4,900
TRH >C_{10} -C_{16}	mg/kg	60	<50	58
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	60	<50	58
TRH >C_{16} -C_{34}	mg/kg	7,400	2,000	4,700
TRH >C_{34} -C_{40}	mg/kg	240	450	460
Total +ve TRH (>C10-C40)	mg/kg	7,700	2,400	5,200
Surrogate o-Terphenyl	%	104	96	96

Misc Soil - Inorg						
Our Reference		331776-A-1	331776-A-2	331776-A-3	331776-A-4	331776-A-5
Your Reference	UNITS	317	317	317	317	317
Depth		4.8-5	5.8-6	6.8-7	7.8-8	8.8-9
Date Sampled		21/08/2023	21/08/2023	21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Moisture				
Our Reference		331776-A-2	331776-A-5	331776-A-6
Your Reference	UNITS	317	317	317
Depth		5.8-6	8.8-9	9.8-10
Date Sampled		21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023
Moisture	%	13	16	17

Misc Inorg - Soil			
Our Reference		331776-A-1	331776-A-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date prepared	-	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023
pH 1:5 soil:water	pH Units	3.5	4.9
Electrical Conductivity 1:5 soil:water	µS/cm	180	62
Chloride, Cl 1:5 soil:water	mg/kg	74	<10
Sulphate, SO4 1:5 soil:water	mg/kg	32	10
Soluble Bicarb as $CaCO_3$ *	mg/kg	<50	100
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	<50	100

Acid Extractable Cations in Soil			
Our Reference		331776-A-1	331776-A-3
Your Reference	UNITS	317	317
Depth		4.8-5	6.8-7
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date prepared	-	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023
Calcium	mg/kg	50	100
Potassium	mg/kg	80	70
Magnesium	mg/kg	160	110
Sodium	mg/kg	<10	10

sTPH in Soil (C10-C40)-Silica						
Our Reference		331776-A-1	331776-A-2	331776-A-3	331776-A-4	331776-A-5
Your Reference	UNITS	317	317	317	317	317
Depth		4.8-5	5.8-6	6.8-7	7.8-8	8.8-9
Date Sampled		21/08/2023	21/08/2023	21/08/2023	21/08/2023	21/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023	17/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TPH C_{15} - C_{28}	mg/kg	2,000	<100	<100	<100	<100
TPH C_{29} - C_{36}	mg/kg	120	<100	<100	<100	<100
TPH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TPH >C_{16} -C_{34}	mg/kg	2,100	<100	<100	<100	<100
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	94	115	113	99	115

sTPH in Soil (C10-C40)-Silica		
Our Reference		331776-A-6
Your Reference	UNITS	317
Depth		9.8-10
Date Sampled		21/08/2023
Type of sample		Soil
Date extracted	-	12/09/2023
Date analysed	-	17/09/2023
TPH C_{10} - C_{14}	mg/kg	<50
TPH C_{15} - C_{28}	mg/kg	<100
TPH C_{29} - C_{36}	mg/kg	<100
TPH >C_{10} -C_{16}	mg/kg	<50
TPH >C_{16} -C_{34}	mg/kg	<100
TPH >C_{34} -C_{40}	mg/kg	<100
Surrogate o-Terphenyl	%	112

Aromatic & Aliphatic TPH			
Our Reference		331776-A-1	331776-A-2
Your Reference	UNITS	317	317
Depth		4.8-5	5.8-6
Date Sampled		21/08/2023	21/08/2023
Type of sample		Soil	Soil
Date extracted	-	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023
>C10-C16 Aliphatic	mg/kg	<50	<50
>C16-C35 Aliphatic	mg/kg	<100	<100
>C35 Aliphatic	mg/kg	<100	<100
>C10-C16 Aromatic	mg/kg	<50	<50
>C16-C35 Aromatic	mg/kg	1,200	<50
Surrogate 1-chlorooctadecane	%	77	80

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. Fractionation with pentane through a silica gel column for aliphatics and DCM for aromatics.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			12/09/2023	[NT]	[NT]	[NT]	[NT]	12/09/2023	[NT]
Date analysed	-			18/09/2023	[NT]	[NT]	[NT]	[NT]	18/09/2023	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	109	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	108	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	110	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	109	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	87	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			12/09/2023	5	12/09/2023	12/09/2023		12/09/2023	[NT]
Date analysed	-			15/09/2023	5	15/09/2023	15/09/2023		15/09/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	5	<50	<50	0	105	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	5	1800	1400	25	112	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	5	340	330	3	86	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	5	<50	<50	0	105	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	5	2000	1600	22	112	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	5	450	440	2	86	[NT]
Surrogate o-Terphenyl	%		Org-020	90	5	96	92	4	88	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	331776-A-2
Date prepared	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	100	117

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]	[NT]	[NT]	[NT]	103	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	[NT]	[NT]	[NT]	[NT]	98	[NT]
Soluble Bicarb as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	50	Inorg-006	<0.5	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: Acid Extractable Cations in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date prepared	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			14/09/2023	[NT]	[NT]	[NT]	[NT]	14/09/2023	[NT]
Calcium	mg/kg	10	Metals-020	<10	[NT]	[NT]	[NT]	[NT]	122	[NT]
Potassium	mg/kg	10	Metals-020	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
Magnesium	mg/kg	10	Metals-020	<10	[NT]	[NT]	[NT]	[NT]	122	[NT]
Sodium	mg/kg	10	Metals-020	<10	[NT]	[NT]	[NT]	[NT]	88	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			12/09/2023	5	12/09/2023	12/09/2023		12/09/2023	[NT]
Date analysed	-			17/09/2023	5	17/09/2023	17/09/2023		17/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	5	<50	<50	0	102	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	5	<100	<100	0	111	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	5	<100	<100	0	100	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	5	<50	<50	0	102	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	5	<100	<100	0	111	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	5	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	106	5	115	115	0	111	[NT]

QUALITY CONTROL: Aromatic & Aliphatic TPH						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			12/09/2023	[NT]	[NT]	[NT]	[NT]	12/09/2023	[NT]
Date analysed	-			17/09/2023	[NT]	[NT]	[NT]	[NT]	17/09/2023	[NT]
>C10-C16 Aliphatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	83	[NT]
>C16-C35 Aliphatic	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	104	[NT]
>C35 Aliphatic	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
>C10-C16 Aromatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
>C16-C35 Aromatic	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	126	[NT]
Surrogate 1-chlorooctadecane	%		Org-020	82	[NT]	[NT]	[NT]	[NT]	101	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Holding time exceedance for PH/EC.

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219607.01 Banksmeadow
Envirolab Reference	331776-A
Date Sample Received	30/08/2023
Date Instructions Received	11/09/2023
Date Results Expected to be Reported	18/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Holding time exceedance: TRH/BTEX/pH/EC

Please contact the laboratory within 24 hours if you wish to cancel the aforementioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Misc Soil - Inorg	Misc Inorg - Soil	Acid ExtractableCations in Soil	sTPH in Soil (C10-C40)-Silica	Aromatic & Aliphatic TPH
317-4.8-5			✓	✓	✓	✓	✓
317-5.8-6	✓	✓	✓			✓	✓
317-6.8-7			✓	✓	✓	✓	
317-7.8-8			✓			✓	
317-8.8-9	✓	✓	✓			✓	
317-9.8-10	✓	✓				✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 331896

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	120 Soil, 1 Water
Date samples received	30/08/2023
Date completed instructions received	31/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	07/09/2023
Date of Issue	07/09/2023

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean, Stuart Chen
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Lucy Zhu, Asbestos Supervisor
Phalak Inthakesone, Organics Development Manager, Sydney
Tim Toll, Chemist

Authorised By
Nancy Zhang, Laboratory Manager

Total PCBs in Soil			
Our Reference		331896-104	331896-107
Your Reference	UNITS	341	341
Depth		0.2-0.4	1.7-1.9
Date Sampled		28/08/23	28/08/23
Type of sample		Soil	Soil
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	06/09/2023	06/09/2023
Total PCB (Aroclor 1016-1260)	mg/kg	0.2	7.0
Surrogate TCMX	%	104	107

VOCs in soil						
Our Reference		331896-18	331896-19	331896-20	331896-21	331896-22
Your Reference	UNITS	331	331	331	331	331
Depth		3-3.2	3.9-4.1	4.8-5	5.2-5.4	5.7-5.9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date Analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	4	6	19	40	55
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	2	2	5	9	11
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	3	<1
Toluene	mg/kg	2,000	9,000	9,600	15,000	27,000
1,3-dichloropropane	mg/kg	<1	<1	<1	33	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331896-18	331896-19	331896-20	331896-21	331896-22
Your Reference	UNITS	331	331	331	331	331
Depth		3-3.2	3.9-4.1	4.8-5	5.2-5.4	5.7-5.9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	2,100	6,100	6,000	8,600	14,000
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	870	3,300	3,300	4,800	8,100
styrene	mg/kg	230	25	18	9	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	290	1,100	1,100	1,200	2,700
1,2,3-trichloropropane	mg/kg	<1	21	<1	<1	<1
isopropylbenzene	mg/kg	1,200	54	120	180	360
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	43	43	95	140	270
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	14	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	44	20	40	64	110
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	170	56	120	170	340
1,3-dichlorobenzene	mg/kg	<1	<1	<1	2	2
sec-butyl benzene	mg/kg	<1	<1	<1	9	<1
1,4-dichlorobenzene	mg/kg	<1	<1	1	2	2
4-isopropyl toluene	mg/kg	19	<1	21	12	95
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	11	4	9	14	20
1,2-dibromo-3-chloropropane	mg/kg	9	<1	<1	2	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	1	1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	97	98	97	98	97
Surrogate aaa-Trifluorotoluene	%	84	69	87	72	63
Surrogate Toluene-d_8	%	102	103	103	105	106
Surrogate 4-Bromofluorobenzene	%	122	113	109	112	111

VOCs in soil						
Our Reference		331896-23	331896-24	331896-26	331896-27	331896-28
Your Reference	UNITS	331	331	331	331	331
Depth		6.3-6.5	6.8-7	7.8-8	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date Analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	7	5	3	4	4
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	0.6	0.4	0.3	0.4	0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	390	1,700	480	480	1,300
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331896-23	331896-24	331896-26	331896-27	331896-28
Your Reference	UNITS	331	331	331	331	331
Depth		6.3-6.5	6.8-7	7.8-8	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	970	1,700	610	520	1,300
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	430	690	260	210	630
styrene	mg/kg	2	4	2	3	29
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	150	210	49	71	190
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	27	21	13	14	24
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	21	16	10	11	19
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	1
1,3,5-trimethyl benzene	mg/kg	8	6	4	4	10
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	28	22	14	15	30
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	3	2	2	2	7
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	2	1	<1	<1	4
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	96	97	97	98	65
Surrogate aaa-Trifluorotoluene	%	76	90	90	83	88
Surrogate Toluene-d_8	%	100	100	100	100	122
Surrogate 4-Bromofluorobenzene	%	109	109	108	107	105

VOCs in soil						
Our Reference		331896-49	331896-50	331896-51	331896-68	331896-80
Your Reference	UNITS	334	334	334	337	338
Depth		2-2.2	2.5-2.7	3-3.2	4.8-5	5.8-6
Date Sampled		29/08/23	29/08/23	29/08/2023	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date Extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date Analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
Toluene	mg/kg	<0.5	<0.5	8	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1

VOCs in soil						
Our Reference		331896-49	331896-50	331896-51	331896-68	331896-80
Your Reference	UNITS	334	334	334	337	338
Depth		2-2.2	2.5-2.7	3-3.2	4.8-5	5.8-6
Date Sampled		29/08/23	29/08/23	29/08/2023	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Ethylbenzene	mg/kg	4	12	39	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	6	37	<2	<2
styrene	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
o-Xylene	mg/kg	<1	<1	7	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
isopropylbenzene	mg/kg	<1	1	4	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
n-propyl benzene	mg/kg	<1	4	6	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	5	3	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	23	19	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
sec-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
4-isopropyl toluene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
n-butyl benzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	98	98	98	98	97
Surrogate aaa-Trifluorotoluene	%	93	94	68	87	87
Surrogate Toluene-d_8	%	99	98	99	98	98
Surrogate 4-Bromofluorobenzene	%	102	105	103	100	101

VOCs in soil		
Our Reference		331896-91
Your Reference	UNITS	339
Depth		5.8-6
Date Sampled		28/08/23
Type of sample		Soil
Date Extracted	-	01/09/2023
Date Analysed	-	04/09/2023
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1

VOCs in soil		
Our Reference		331896-91
Your Reference	UNITS	339
Depth		5.8-6
Date Sampled		28/08/23
Type of sample		Soil
Ethylbenzene	mg/kg	<1
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluoromethane	%	97
Surrogate aaa-Trifluorotoluene	%	81
Surrogate Toluene-d_8	%	98
Surrogate 4-Bromofluorobenzene	%	100

sTPH in Soil (C10-C40)-Silica				
Our Reference		331896-18	331896-20	331896-23
Your Reference	UNITS	331	331	331
Depth		3-3.2	4.8-5	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	06/09/2023	06/09/2023	06/09/2023
TPH C_{10} - C_{14}	mg/kg	1,200	2,700	260
TPH C_{15} - C_{28}	mg/kg	720	3,100	200
TPH C_{29} - C_{36}	mg/kg	220	180	<100
TPH >C_{10} -C_{16}	mg/kg	730	1,600	160
TPH >C_{16} -C_{34}	mg/kg	870	3,200	190
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	113	99	82

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-1	331896-4	331896-5	331896-8	331896-9
Your Reference	UNITS	307	307	307	307	307
Depth		0.2-0.4	1.5-1.7	1.9-2.1	4.8-5	5.8-6
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	0.7
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	2	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	84	88	82	76

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-10	331896-12	331896-14	331896-17	331896-18
Your Reference	UNITS	307	331	331	331	331
Depth		6.8-7	0.1-0.3	1-1.2	2.5-2.7	3-3.2
Date Sampled		25/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	36	3,300	10,000
TRH C_6 - C_{10}	mg/kg	<25	<25	43	3,600	13,000
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	33	2,400	7,700
Benzene	mg/kg	<0.2	<0.2	<0.2	2	2
Toluene	mg/kg	<0.5	1	1	450	2,000
Ethylbenzene	mg/kg	<1	<1	8	520	2,100
m+p-xylene	mg/kg	<2	<2	<2	150	870
o-Xylene	mg/kg	<1	<1	<1	68	290
Naphthalene	mg/kg	<1	<1	<1	6	8
Total +ve Xylenes	mg/kg	<1	<1	<1	220	1,200
Surrogate aaa-Trifluorotoluene	%	77	98	83	107	84

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-19	331896-20	331896-21	331896-22	331896-23
Your Reference	UNITS	331	331	331	331	331
Depth		3.9-4.1	4.8-5	5.2-5.4	5.7-5.9	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	33,000	33,000	49,000	85,000	4,200
TRH C_6 - C_{10}	mg/kg	38,000	37,000	56,000	96,000	5,300
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	18,000	17,000	26,000	44,000	3,400
Benzene	mg/kg	2	5	9	11	0.6
Toluene	mg/kg	9,000	9,600	15,000	27,000	390
Ethylbenzene	mg/kg	6,100	6,000	8,600	14,000	970
m+p-xylene	mg/kg	3,300	3,300	4,800	8,100	430
o-Xylene	mg/kg	1,100	1,100	1,200	2,700	150
Naphthalene	mg/kg	5	16	23	32	4
Total +ve Xylenes	mg/kg	4,400	4,400	6,000	11,000	580
Surrogate aaa-Trifluorotoluene	%	69	87	72	63	76

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-24	331896-25	331896-26	331896-27	331896-28
Your Reference	UNITS	331	331	331	331	331
Depth		6.8-7	7.3-7.5	7.8-8	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	6,500	3,300	3,300	2,000	3,000
TRH C_6 - C_{10}	mg/kg	7,500	3,800	4,000	2,300	3,100
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	3,200	1,900	2,600	1,000	<25
Benzene	mg/kg	0.4	0.2	0.3	0.4	1
Toluene	mg/kg	1,700	690	480	480	1,300
Ethylbenzene	mg/kg	1,700	790	610	520	1,300
m+p-xylene	mg/kg	690	320	260	210	630
o-Xylene	mg/kg	210	59	49	71	190
Naphthalene	mg/kg	3	2	2	2	6
Total +ve Xylenes	mg/kg	900	380	310	280	820
Surrogate aaa-Trifluorotoluene	%	90	94	90	83	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-29	331896-31	331896-32	331896-34	331896-36
Your Reference	UNITS	332	332	333	333	333
Depth		0.1-0.3	1-1.2	0.1-0.3	1-1.2	2-2.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	1	0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	87	96	83	87

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-37	331896-39	331896-42	331896-44	331896-45
Your Reference	UNITS	333	333	333	333	334
Depth		2.4-2.6	4.5-4.7	5.8-6	7.3-7.5	0.1-0.3
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	87	76	71	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-49	331896-50	331896-51	331896-53	331896-54
Your Reference	UNITS	334	334	334	334	334
Depth		2-2.2	2.5-2.7	3-3.2	4.5-4.7	5.5-5.7
Date Sampled		29/08/23	29/08/23	29/08/2023	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	44	160	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	130	230	41	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	110	140	36	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	8	0.7	<0.5
Ethylbenzene	mg/kg	4	12	39	1	<1
m+p-xylene	mg/kg	<2	6	37	3	<2
o-Xylene	mg/kg	<1	<1	7	<1	<1
Naphthalene	mg/kg	<1	1	<1	1	18
Total +ve Xylenes	mg/kg	<1	6	44	3	<1
Surrogate aaa-Trifluorotoluene	%	93	94	68	92	86

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-55	331896-60	331896-61	331896-63	331896-65
Your Reference	UNITS	334	337	337	337	337
Depth		6-6.2	0.2-0.4	0.5-0.7	1.5-1.7	2.4-2.6
Date Sampled		29/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.8	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	87	84	81	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-68	331896-70	331896-71	331896-72	331896-74
Your Reference	UNITS	337	337	337	338	338
Depth		4.8-5	6.8-7	7.8-8	0.2-0.4	1-1.2
Date Sampled		25/08/23	25/08/2023	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	79	88	97	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-76	331896-79	331896-80	331896-82	331896-83
Your Reference	UNITS	338	338	338	338	339
Depth		2.1-2.3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	310	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	780	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	690	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	9	<1
m+p-xylene	mg/kg	<2	<2	<2	61	<2
o-Xylene	mg/kg	<1	<1	<1	18	<1
Naphthalene	mg/kg	<1	<1	<1	3	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	79	<1
Surrogate aaa-Trifluorotoluene	%	84	82	87	89	84

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-85	331896-86	331896-88	331896-90	331896-91
Your Reference	UNITS	339	339	339	339	339
Depth		1-1.2	1.6-1.8	2.8-3	4.8-5	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	83	94	85	81

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-93	331896-94	331896-95	331896-96	331896-99
Your Reference	UNITS	339	340	340	340	340
Depth		7.8-8	0.3-0.5	0.8-1	1.1-1.3	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	37	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	37	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	2	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	92	80	90	88	69

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-101	331896-104	331896-107	331896-110	331896-113
Your Reference	UNITS	340	341	341	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9	3.2-3.4	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	87	93	85	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-114	331896-115	331896-116	331896-117	331896-118
Your Reference	UNITS	BD2/20230825	BD4/20230825	BD2/20230828	Trip Spike/20230825	Trip Spike/20230829
Depth		-	-	-	-	-
Date Sampled		25/08/2023	25/08/2023	28/08/2023	25/08/2023	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	[NA]	[NA]
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	[NA]	[NA]
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	[NT]	[NT]
Benzene	mg/kg	<0.2	<0.2	<0.2	98%	101%
Toluene	mg/kg	<0.5	<0.5	<0.5	98%	101%
Ethylbenzene	mg/kg	<1	<1	<1	99%	102%
m+p-xylene	mg/kg	<2	<2	<2	98%	102%
o-Xylene	mg/kg	<1	<1	<1	99%	101%
Naphthalene	mg/kg	<1	<1	<1	[NA]	[NA]
Total +ve Xylenes	mg/kg	<1	<1	<1	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%	89	86	86	99	106

vTRH(C6-C10)/BTEXN in Soil			
Our Reference	UNITS	331896-119	331896-120
Your Reference		Trip Blank/20230825	Trip Blank/20230829
Depth		-	-
Date Sampled		25/08/23	29/08/23
Type of sample		Soil	Soil
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	94

svTRH (C10-C40) in Soil						
Our Reference		331896-1	331896-4	331896-5	331896-8	331896-9
Your Reference	UNITS	307	307	307	307	307
Depth		0.2-0.4	1.5-1.7	1.9-2.1	4.8-5	5.8-6
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	95	91	92	95	102

svTRH (C10-C40) in Soil						
Our Reference		331896-10	331896-12	331896-14	331896-17	331896-18
Your Reference	UNITS	307	331	331	331	331
Depth		6.8-7	0.1-0.3	1-1.2	2.5-2.7	3-3.2
Date Sampled		25/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	03/09/2023	03/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	91	100	3,900	2,200
TRH C_{15} - C_{28}	mg/kg	<100	600	530	38,000	2,400
TRH C_{29} - C_{36}	mg/kg	<100	180	200	8,000	500
Total +ve TRH (C10-C36)	mg/kg	<50	870	830	50,000	5,100
TRH >C_{10} -C_{16}	mg/kg	<50	95	110	6,600	1,400
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	95	110	6,600	1,400
TRH >C_{16} -C_{34}	mg/kg	<100	710	650	41,000	2,700
TRH >C_{34} -C_{40}	mg/kg	<100	<100	120	2,600	210
Total +ve TRH (>C10-C40)	mg/kg	<50	800	880	51,000	4,300
Surrogate o-Terphenyl	%	93	97	109	#	#

svTRH (C10-C40) in Soil						
Our Reference		331896-19	331896-20	331896-21	331896-22	331896-23
Your Reference	UNITS	331	331	331	331	331
Depth		3.9-4.1	4.8-5	5.2-5.4	5.7-5.9	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	3,100	3,400	6,500	8,100	390
TRH C_{15} - C_{28}	mg/kg	6,000	4,200	8,600	8,200	450
TRH C_{29} - C_{36}	mg/kg	560	350	800	880	<100
Total +ve TRH (C10-C36)	mg/kg	9,700	8,000	16,000	17,000	850
TRH >C_{10} -C_{16}	mg/kg	1,600	2,100	3,900	4,400	230
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	1,600	2,100	3,900	4,400	220
TRH >C_{16} -C_{34}	mg/kg	6,400	4,400	9,000	8,600	490
TRH >C_{34} -C_{40}	mg/kg	180	150	440	450	<100
Total +ve TRH (>C10-C40)	mg/kg	8,200	6,600	13,000	13,000	710
Surrogate o-Terphenyl	%	#	136	#	#	92

svTRH (C10-C40) in Soil						
Our Reference		331896-24	331896-25	331896-26	331896-27	331896-28
Your Reference	UNITS	331	331	331	331	331
Depth		6.8-7	7.3-7.5	7.8-8	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	380	200	230	320	810
TRH C_{15} - C_{28}	mg/kg	430	250	270	350	830
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	820	450	490	680	1,600
TRH >C_{10} -C_{16}	mg/kg	220	120	130	180	460
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	220	120	130	180	450
TRH >C_{16} -C_{34}	mg/kg	460	270	290	380	880
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	680	390	420	560	1,300
Surrogate o-Terphenyl	%	92	91	92	97	106

svTRH (C10-C40) in Soil						
Our Reference		331896-29	331896-31	331896-32	331896-34	331896-36
Your Reference	UNITS	332	332	333	333	333
Depth		0.1-0.3	1-1.2	0.1-0.3	1-1.2	2-2.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	03/09/2023	03/09/2023	03/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	390	<50	100	<50
TRH C_{15} - C_{28}	mg/kg	320	1,600	240	610	280
TRH C_{29} - C_{36}	mg/kg	470	480	470	160	150
Total +ve TRH (C10-C36)	mg/kg	790	2,400	710	870	430
TRH >C_{10} -C_{16}	mg/kg	<50	440	<50	110	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	440	<50	110	<50
TRH >C_{16} -C_{34}	mg/kg	610	1,800	520	710	370
TRH >C_{34} -C_{40}	mg/kg	510	250	620	<100	100
Total +ve TRH (>C10-C40)	mg/kg	1,100	2,500	1,100	820	480
Surrogate o-Terphenyl	%	94	#	86	111	91

svTRH (C10-C40) in Soil						
Our Reference		331896-37	331896-39	331896-42	331896-44	331896-45
Your Reference	UNITS	333	333	333	333	334
Depth		2.4-2.6	4.5-4.7	5.8-6	7.3-7.5	0.1-0.3
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	03/09/2023	03/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	380
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	720
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	1,100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	840
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	810
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	1,600
Surrogate o-Terphenyl	%	95	89	89	97	92

svTRH (C10-C40) in Soil						
Our Reference		331896-49	331896-50	331896-51	331896-53	331896-54
Your Reference	UNITS	334	334	334	334	334
Depth		2-2.2	2.5-2.7	3-3.2	4.5-4.7	5.5-5.7
Date Sampled		29/08/23	29/08/23	29/08/2023	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	03/09/2023	03/09/2023	02/09/2023	02/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	50	460	330	82	50
TRH C_{15} - C_{28}	mg/kg	<100	150	530	590	120
TRH C_{29} - C_{36}	mg/kg	<100	<100	120	300	120
Total +ve TRH (C10-C36)	mg/kg	50	610	990	970	290
TRH >C_{10} -C_{16}	mg/kg	<50	340	280	71	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	340	280	70	<50
TRH >C_{16} -C_{34}	mg/kg	<100	130	600	810	210
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	180	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	470	880	1,100	210
Surrogate o-Terphenyl	%	93	109	106	125	94

svTRH (C10-C40) in Soil						
Our Reference		331896-55	331896-60	331896-61	331896-63	331896-65
Your Reference	UNITS	334	337	337	337	337
Depth		6-6.2	0.2-0.4	0.5-0.7	1.5-1.7	2.4-2.6
Date Sampled		29/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	03/09/2023	03/09/2023	03/09/2023	02/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	88	87	87	88

svTRH (C10-C40) in Soil						
Our Reference		331896-68	331896-70	331896-71	331896-72	331896-74
Your Reference	UNITS	337	337	337	338	338
Depth		4.8-5	6.8-7	7.8-8	0.2-0.4	1-1.2
Date Sampled		25/08/23	25/08/2023	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	03/09/2023	03/09/2023	03/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	86	88	89	87

svTRH (C10-C40) in Soil						
Our Reference		331896-76	331896-79	331896-80	331896-82	331896-83
Your Reference	UNITS	338	338	338	338	339
Depth		2.1-2.3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	03/09/2023	03/09/2023	03/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	760	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	760	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	390	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	390	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	390	<50
Surrogate o-Terphenyl	%	89	89	88	88	86

svTRH (C10-C40) in Soil						
Our Reference		331896-85	331896-86	331896-88	331896-90	331896-91
Your Reference	UNITS	339	339	339	339	339
Depth		1-1.2	1.6-1.8	2.8-3	4.8-5	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	88	88	89	84

svTRH (C10-C40) in Soil						
Our Reference		331896-93	331896-94	331896-95	331896-96	331896-99
Your Reference	UNITS	339	340	340	340	340
Depth		7.8-8	0.3-0.5	0.8-1	1.1-1.3	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	82	86	86	88

svTRH (C10-C40) in Soil						
Our Reference		331896-101	331896-104	331896-107	331896-110	331896-113
Your Reference	UNITS	340	341	341	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9	3.2-3.4	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	03/09/2023	03/09/2023	03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	120	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	120	<50	<50	<50
Surrogate o-Terphenyl	%	88	83	85	85	85

svTRH (C10-C40) in Soil						
Our Reference		331896-114	331896-115	331896-116	331896-119	331896-120
Your Reference	UNITS	BD2/20230825	BD4/20230825	BD2/20230828	Trip Blank/20230825	Trip Blank/20230829
Depth		-	-	-	-	-
Date Sampled		25/08/2023	25/08/2023	28/08/2023	25/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	94	92	84	88	93

PAHs in Soil						
Our Reference		331896-1	331896-4	331896-5	331896-9	331896-12
Your Reference	UNITS	307	307	307	307	331
Depth		0.2-0.4	1.5-1.7	1.9-2.1	5.8-6	0.1-0.3
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	0.5
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	2.0
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	96	104	100	104

PAHs in Soil						
Our Reference		331896-14	331896-17	331896-18	331896-19	331896-20
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	2.5-2.7	3-3.2	3.9-4.1	4.8-5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	0.4	5.7	5.3	11	16
Acenaphthylene	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<1	0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	14	0.5	<0.1	0.1
Anthracene	mg/kg	<0.1	<1	0.2	<0.1	<0.1
Fluoranthene	mg/kg	0.5	<1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.6	1.3	<0.1	<0.2	<0.1
Benzo(a)anthracene	mg/kg	0.3	<1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	<1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	1	<2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	<0.5	<0.05	<0.4	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3	<1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	4.2	21	6.1	11	16
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	0.5	<5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.6	<5	<0.5	0.5	<0.5
Surrogate p-Terphenyl-d14	%	103	107	100	132	101

PAHs in Soil						
Our Reference		331896-21	331896-23	331896-26	331896-28	331896-29
Your Reference	UNITS	331	331	331	331	332
Depth		5.2-5.4	6.3-6.5	7.8-8	8.8-9	0.1-0.3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	25	2.6	1.3	4.3	0.4
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.8
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	3.7
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	8.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	8.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	4.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	4.0
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	12
Benzo(a)pyrene	mg/kg	0.09	<0.05	<0.05	<0.05	3.7
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	2.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.6
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	3.2
Total +ve PAH's	mg/kg	25	2.6	1.3	4.3	52
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	6.2
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	6.2
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	6.2
Surrogate p-Terphenyl-d14	%	113	94	91	101	98

PAHs in Soil						
Our Reference		331896-31	331896-32	331896-34	331896-36	331896-37
Your Reference	UNITS	332	333	333	333	333
Depth		1-1.2	0.1-0.3	1-1.2	2-2.2	2.4-2.6
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	1.2	0.1	0.7	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	2.3	0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	0.6	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.4	5.9	0.2	<0.1	<0.1
Pyrene	mg/kg	0.5	5.9	0.2	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	2.4	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	2.6	0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.6	6.8	0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.1	2.0	0.06	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	2.0	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	3.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	3.9	35	1.6	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	3.7	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	3.7	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	3.7	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	104	103	102	96

PAHs in Soil						
Our Reference		331896-39	331896-42	331896-45	331896-49	331896-50
Your Reference	UNITS	333	333	334	334	334
Depth		4.5-4.7	5.8-6	0.1-0.3	2-2.2	2.5-2.7
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	0.2	<0.1	0.4	<0.1	1.2
Acenaphthylene	mg/kg	<0.1	<0.1	0.5	<0.1	0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Phenanthrene	mg/kg	<0.1	<0.1	1.5	<0.1	1.1
Anthracene	mg/kg	<0.1	<0.1	0.6	<0.1	0.2
Fluoranthene	mg/kg	<0.1	<0.1	4.3	<0.1	1.8
Pyrene	mg/kg	<0.1	<0.1	4.4	0.1	1.7
Benzo(a)anthracene	mg/kg	<0.1	<0.1	2.2	<0.1	0.8
Chrysene	mg/kg	<0.1	<0.1	2.3	<0.1	0.9
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	6.2	<0.2	2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	1.8	0.05	0.4
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	1.8	<0.1	0.4
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.5	<0.1	0.2
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	2.8	<0.1	0.6
Total +ve PAH's	mg/kg	0.2	<0.05	29	0.2	11
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	3.4	<0.5	0.9
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	3.4	<0.5	0.9
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	3.4	<0.5	0.9
Surrogate p-Terphenyl-d14	%	100	97	100	101	97

PAHs in Soil						
Our Reference		331896-51	331896-54	331896-55	331896-60	331896-63
Your Reference	UNITS	334	334	334	337	337
Depth		3-3.2	5.5-5.7	6-6.2	0.2-0.4	1.5-1.7
Date Sampled		29/08/2023	29/08/23	29/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	0.5	17	0.3	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	1.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.7	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.9	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.6	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	0.3	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.4	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.1	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.0	22	0.3	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	101	98	93	100

PAHs in Soil						
Our Reference		331896-65	331896-68	331896-72	331896-74	331896-76
Your Reference	UNITS	337	337	338	338	338
Depth		2.4-2.6	4.8-5	0.2-0.4	1-1.2	2.1-2.3
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	90	94	96	93

PAHs in Soil						
Our Reference		331896-79	331896-80	331896-83	331896-85	331896-86
Your Reference	UNITS	338	338	339	339	339
Depth		4.8-5	5.8-6	0.2-0.4	1-1.2	1.6-1.8
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	91	93	98	103	95

PAHs in Soil						
Our Reference		331896-90	331896-94	331896-95	331896-96	331896-99
Your Reference	UNITS	339	340	340	340	340
Depth		4.8-5	0.3-0.5	0.8-1	1.1-1.3	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	0.1	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	94	101	97	100	96

PAHs in Soil						
Our Reference		331896-101	331896-104	331896-107	331896-110	331896-113
Your Reference	UNITS	340	341	341	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9	3.2-3.4	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	1.2	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	93	100	91	89	93

PAHs in Soil			
Our Reference		331896-116	331896-123
Your Reference	UNITS	BD2/20230828	334 - [TRIPLICATE]
Depth		-	0.1-0.3
Date Sampled		28/08/2023	29/08/23
Type of sample		Soil	Soil
Date extracted	-	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	1.2
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	0.1
Phenanthrene	mg/kg	<0.1	3.1
Anthracene	mg/kg	<0.1	1.5
Fluoranthene	mg/kg	<0.1	7.7
Pyrene	mg/kg	<0.1	8.3
Benzo(a)anthracene	mg/kg	<0.1	4.9
Chrysene	mg/kg	<0.1	5.0
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	15
Benzo(a)pyrene	mg/kg	<0.05	5.4
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	3.0
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.6
Benzo(g,h,i)perylene	mg/kg	<0.1	3.0
Total +ve PAH's	mg/kg	<0.05	59
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	8.4
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	8.4
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	8.4
Surrogate p-Terphenyl-d14	%	103	107

Organochlorine Pesticides in soil						
Our Reference		331896-1	331896-12	331896-17	331896-18	331896-20
Your Reference	UNITS	307	331	331	331	331
Depth		0.2-0.4	0.1-0.3	2.5-2.7	3-3.2	4.8-5
Date Sampled		25/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	0.8	0.7	0.6	3.2
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	1.8	1.4	3.7	41
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	2.6	1.2	0.2	1.8
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	5.3	3.3	4.6	46
Surrogate TCMX	%	110	107	134	103	99

Organochlorine Pesticides in soil						
Our Reference		331896-26	331896-29	331896-31	331896-32	331896-45
Your Reference	UNITS	331	332	332	333	334
Depth		7.8-8	0.1-0.3	1-1.2	0.1-0.3	0.1-0.3
Date Sampled		28/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
alpha-BHC	mg/kg	<0.1	<1	<0.1	<1	<1
HCB	mg/kg	<0.1	<1	<0.1	<1	<1
beta-BHC	mg/kg	<0.1	<1	<0.1	<1	<1
gamma-BHC	mg/kg	<0.1	<1	<0.1	<1	<1
Heptachlor	mg/kg	<0.1	<1	<0.1	<1	<1
delta-BHC	mg/kg	<0.1	<1	<0.1	<1	<1
Aldrin	mg/kg	<0.1	<1	<0.1	<1	<1
Heptachlor Epoxide	mg/kg	<0.1	<1	<0.1	<1	<1
gamma-Chlordane	mg/kg	<0.1	<1	0.1	<1	<1
alpha-chlordane	mg/kg	<0.1	<1	<0.1	<1	<1
Endosulfan I	mg/kg	<0.1	<1	<0.1	<1	<1
pp-DDE	mg/kg	0.2	<1	2.7	<1	<1
Dieldrin	mg/kg	<0.1	<1	<0.1	<1	<1
Endrin	mg/kg	<0.1	<1	<0.1	<1	<1
Endosulfan II	mg/kg	<0.1	<1	<0.1	<1	<1
pp-DDD	mg/kg	2.8	<1	8.6	<1	<1
Endrin Aldehyde	mg/kg	<0.1	<1	<0.1	<1	<1
pp-DDT	mg/kg	1.7	<1	7.0	<1	<1
Endosulfan Sulphate	mg/kg	<0.1	<1	<0.1	<1	<1
Methoxychlor	mg/kg	<0.1	<1	<0.1	<1	<1
Mirex	mg/kg	<0.1	<1.0	<0.1	<1.0	<1.0
Total +ve DDT+DDD+DDE	mg/kg	4.8	<1	18	<1	<1
Surrogate TCMX	%	101	105	106	106	104

Organochlorine Pesticides in soil						
Our Reference		331896-60	331896-72	331896-83	331896-94	331896-104
Your Reference	UNITS	337	338	339	340	341
Depth		0.2-0.4	0.2-0.4	0.2-0.4	0.3-0.5	0.2-0.4
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	107	105	104	109	104

Organochlorine Pesticides in soil		
Our Reference		331896-107
Your Reference	UNITS	341
Depth		1.7-1.9
Date Sampled		28/08/23
Type of sample		Soil
Date extracted	-	01/09/2023
Date analysed	-	01/09/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	107

Organophosphorus Pesticides in Soil						
Our Reference		331896-1	331896-12	331896-17	331896-29	331896-45
Your Reference	UNITS	307	331	331	332	334
Depth		0.2-0.4	0.1-0.3	2.5-2.7	0.1-0.3	0.1-0.3
Date Sampled		25/08/23	28/08/23	28/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	110	107	134	105	104

Organophosphorus Pesticides in Soil					
Our Reference		331896-60	331896-72	331896-94	331896-104
Your Reference	UNITS	337	338	340	341
Depth		0.2-0.4	0.2-0.4	0.3-0.5	0.2-0.4
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	107	105	109	104

PCBs in Soil						
Our Reference		331896-1	331896-12	331896-17	331896-18	331896-20
Your Reference	UNITS	307	331	331	331	331
Depth		0.2-0.4	0.1-0.3	2.5-2.7	3-3.2	4.8-5
Date Sampled		25/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<1	<1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<1	<1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	110	107	134	103	99

PCBs in Soil						
Our Reference		331896-26	331896-29	331896-31	331896-32	331896-45
Your Reference	UNITS	331	332	332	333	334
Depth		7.8-8	0.1-0.3	1-1.2	0.1-0.3	0.1-0.3
Date Sampled		28/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	101	105	106	106	104

PCBs in Soil						
Our Reference		331896-60	331896-72	331896-83	331896-94	331896-104
Your Reference	UNITS	337	338	339	340	341
Depth		0.2-0.4	0.2-0.4	0.2-0.4	0.3-0.5	0.2-0.4
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	107	105	104	109	104

PCBs in Soil		
Our Reference		331896-107
Your Reference	UNITS	341
Depth		1.7-1.9
Date Sampled		28/08/23
Type of sample		Soil
Date extracted	-	01/09/2023
Date analysed	-	01/09/2023
Aroclor 1016	mg/kg	<10
Aroclor 1221	mg/kg	<10
Aroclor 1232	mg/kg	<10
Aroclor 1242	mg/kg	<10
Aroclor 1248	mg/kg	<10
Aroclor 1254	mg/kg	<10
Aroclor 1260	mg/kg	<10
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	107

Acid Extractable metals in soil						
Our Reference		331896-1	331896-4	331896-5	331896-9	331896-12
Your Reference	UNITS	307	307	307	307	331
Depth		0.2-0.4	1.5-1.7	1.9-2.1	5.8-6	0.1-0.3
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	0.9
Chromium	mg/kg	2	4	2	3	110
Copper	mg/kg	21	<1	<1	<1	34
Lead	mg/kg	13	3	<1	<1	960
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	10
Nickel	mg/kg	4	<1	<1	<1	6
Zinc	mg/kg	17	3	<1	2	200

Acid Extractable metals in soil						
Our Reference		331896-14	331896-17	331896-18	331896-19	331896-20
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	2.5-2.7	3-3.2	3.9-4.1	4.8-5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	4	<4	<4	<4	<4
Cadmium	mg/kg	1	2	2	2	<0.4
Chromium	mg/kg	290	55	510	36	4
Copper	mg/kg	86	46	33	57	8
Lead	mg/kg	1,000	460	2,900	140	31
Mercury	mg/kg	23	5.2	38	3.5	5.8
Nickel	mg/kg	20	120	15	3	<1
Zinc	mg/kg	540	3,800	740	510	400

Acid Extractable metals in soil						
Our Reference		331896-21	331896-23	331896-26	331896-28	331896-29
Your Reference	UNITS	331	331	331	331	332
Depth		5.2-5.4	6.3-6.5	7.8-8	8.8-9	0.1-0.3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	5	5	3	18	32
Copper	mg/kg	14	<1	<1	2	46
Lead	mg/kg	37	15	7	88	24
Mercury	mg/kg	3.4	0.3	0.2	2.1	0.4
Nickel	mg/kg	2	<1	<1	<1	18
Zinc	mg/kg	510	31	16	52	30

Acid Extractable metals in soil						
Our Reference		331896-31	331896-32	331896-34	331896-36	331896-37
Your Reference	UNITS	332	333	333	333	333
Depth		1-1.2	0.1-0.3	1-1.2	2-2.2	2.4-2.6
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	5	<4	<4	<4
Cadmium	mg/kg	1	<0.4	2	<0.4	<0.4
Chromium	mg/kg	270	41	180	2	66
Copper	mg/kg	52	49	68	3	19
Lead	mg/kg	1,600	46	1,000	140,000	1,000
Mercury	mg/kg	15	0.7	20	0.8	0.3
Nickel	mg/kg	9	26	12	<1	13
Zinc	mg/kg	300	59	380	7	82

Acid Extractable metals in soil						
Our Reference		331896-39	331896-42	331896-45	331896-49	331896-50
Your Reference	UNITS	333	333	334	334	334
Depth		4.5-4.7	5.8-6	0.1-0.3	2-2.2	2.5-2.7
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	5	5	<4	6	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.8	<0.4
Chromium	mg/kg	130	9	15	60	11
Copper	mg/kg	25	1	73	1,900	19
Lead	mg/kg	620	83	27	390	79
Mercury	mg/kg	0.7	0.1	0.3	47	28
Nickel	mg/kg	3	<1	16	24	10
Zinc	mg/kg	60	120	49	640	110

Acid Extractable metals in soil						
Our Reference		331896-51	331896-54	331896-55	331896-60	331896-63
Your Reference	UNITS	334	334	334	337	337
Depth		3-3.2	5.5-5.7	6-6.2	0.2-0.4	1.5-1.7
Date Sampled		29/08/2023	29/08/23	29/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	8	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	300	41	44	12	<1
Copper	mg/kg	37	31	2	15	2
Lead	mg/kg	1,300	290	240	88	8
Mercury	mg/kg	1.6	0.6	0.2	<0.1	<0.1
Nickel	mg/kg	14	3	<1	20	<1
Zinc	mg/kg	170	61	16	32	4

Acid Extractable metals in soil						
Our Reference		331896-65	331896-68	331896-72	331896-74	331896-76
Your Reference	UNITS	337	337	338	338	338
Depth		2.4-2.6	4.8-5	0.2-0.4	1-1.2	2.1-2.3
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	3	1	2	2	2
Copper	mg/kg	<1	<1	<1	<1	<1
Lead	mg/kg	2	1	5	4	1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	<1	<1	1
Zinc	mg/kg	6	1	3	3	<1

Acid Extractable metals in soil						
Our Reference		331896-79	331896-80	331896-83	331896-85	331896-86
Your Reference	UNITS	338	338	339	339	339
Depth		4.8-5	5.8-6	0.2-0.4	1-1.2	1.6-1.8
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	2	2	4	1
Copper	mg/kg	<1	<1	18	<1	<1
Lead	mg/kg	<1	<1	4	2	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	3	2	<1
Zinc	mg/kg	1	1	5	<1	<1

Acid Extractable metals in soil						
Our Reference		331896-90	331896-94	331896-95	331896-96	331896-99
Your Reference	UNITS	339	340	340	340	340
Depth		4.8-5	0.3-0.5	0.8-1	1.1-1.3	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	1	3	4	1	<1
Copper	mg/kg	<1	28	11	<1	<1
Lead	mg/kg	<1	3	7	2	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	4	23	<1	<1
Zinc	mg/kg	2	4	7	1	<1

Acid Extractable metals in soil						
Our Reference		331896-101	331896-104	331896-107	331896-110	331896-113
Your Reference	UNITS	340	341	341	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9	3.2-3.4	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	1	<0.4	<0.4	<0.4
Chromium	mg/kg	2	420	10	2	1
Copper	mg/kg	<1	58	24	<1	<1
Lead	mg/kg	1	1,000	8	2	<1
Mercury	mg/kg	<0.1	6.7	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	63	1	1	<1
Zinc	mg/kg	2	220	9	3	2

Acid Extractable metals in soil						
Our Reference		331896-116	331896-122	331896-123	331896-124	331896-125
Your Reference	UNITS	BD2/20230828	307 - [TRIPLICATE]	334 - [TRIPLICATE]	339 - [TRIPLICATE]	331 - [TRIPLICATE]
Depth		-	0.2-0.4	0.1-0.3	0.2-0.4	8.8-9
Date Sampled		28/08/2023	25/08/23	29/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	51	2	5
Copper	mg/kg	<1	8	38	14	1
Lead	mg/kg	1	16	29	3	18
Mercury	mg/kg	<0.1	<0.1	0.5	<0.1	0.5
Nickel	mg/kg	<1	2	19	3	<1
Zinc	mg/kg	2	23	48	4	30

Acid Extractable metals in soil		
Our Reference		331896-126
Your Reference	UNITS	331 - [TRIPLICATE]
Depth		3-3.2
Date Sampled		28/08/23
Type of sample		Soil
Date prepared	-	01/09/2023
Date analysed	-	04/09/2023
Arsenic	mg/kg	<4
Cadmium	mg/kg	1
Chromium	mg/kg	270
Copper	mg/kg	64
Lead	mg/kg	1,400
Mercury	mg/kg	21
Nickel	mg/kg	31
Zinc	mg/kg	600

Misc Soil - Inorg						
Our Reference		331896-1	331896-12	331896-17	331896-29	331896-36
Your Reference	UNITS	307	331	331	332	333
Depth		0.2-0.4	0.1-0.3	2.5-2.7	0.1-0.3	2-2.2
Date Sampled		25/08/23	28/08/23	28/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331896-45	331896-50	331896-51	331896-60	331896-63
Your Reference	UNITS	334	334	334	337	337
Depth		0.1-0.3	2.5-2.7	3-3.2	0.2-0.4	1.5-1.7
Date Sampled		29/08/23	29/08/23	29/08/2023	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		331896-72	331896-74	331896-94	331896-95	331896-104
Your Reference	UNITS	338	338	340	340	341
Depth		0.2-0.4	1-1.2	0.3-0.5	0.8-1	0.2-0.4
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

PFAS in Soils Short						
Our Reference		331896-12	331896-17	331896-20	331896-21	331896-23
Your Reference	UNITS	331	331	331	331	331
Depth		0.1-0.3	2.5-2.7	4.8-5	5.2-5.4	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	05/09/2023	05/09/2023	04/09/2023	04/09/2023	04/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.2	<0.1	1.9	0.6	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	4.8	0.4	0.9	1.2	0.3
Perfluorooctanoic acid PFOA	µg/kg	0.1	<0.1	0.2	0.2	<0.1
6:2 FTS	µg/kg	0.1	<0.1	<0.1	0.5	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	73	87	95	99	95
Surrogate $^{13}C_2$ *PFOA*	%	82	82	77	72	83
Extracted ISTD $^{18}O_2$ *PFHxS*	%	80	72	74	67	80
Extracted ISTD $^{13}C_4$ *PFOS*	%	144	133	89	84	96
Extracted ISTD $^{13}C_4$ *PFOA*	%	130	120	104	102	110
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	147	186	159	148
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	141	183	172	169
Total Positive PFHxS & PFOS	µg/kg	5.0	0.4	2.8	1.8	0.3
Total Positive PFOS & PFOA	µg/kg	4.9	0.4	1.1	1.4	0.3
Total Positive PFAS	µg/kg	5.3	0.4	3.0	2.5	0.3

PFAS in Soils Short						
Our Reference		331896-29	331896-31	331896-45	331896-51	331896-55
Your Reference	UNITS	332	332	334	334	334
Depth		0.1-0.3	1-1.2	0.1-0.3	3-3.2	6-6.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/2023	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.2	0.4	0.2	0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	2.3	5.1	2.3	0.3	0.2
Perfluorooctanoic acid PFOA	µg/kg	0.3	<0.1	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1	<0.1	1.5
8:2 FTS	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	93	99	93	94	97
Surrogate $^{13}C_2$ *PFOA*	%	82	71	79	80	86
Extracted ISTD $^{18}O_2$ *PFHxS*	%	83	75	78	84	76
Extracted ISTD $^{13}C_4$ *PFOS*	%	99	88	95	97	90
Extracted ISTD $^{13}C_4$ *PFOA*	%	118	101	104	113	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	158	168	168	111
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	181	#	#	140
Total Positive PFHxS & PFOS	µg/kg	2.5	5.4	2.5	0.4	0.2
Total Positive PFOS & PFOA	µg/kg	2.5	5.1	2.3	0.3	0.2
Total Positive PFAS	µg/kg	2.8	5.4	2.5	0.4	1.8

PFAS in Soils Short						
Our Reference		331896-83	331896-85	331896-86	331896-94	331896-99
Your Reference	UNITS	339	339	339	340	340
Depth		0.2-0.4	1-1.2	1.6-1.8	0.3-0.5	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023	04/09/2023	04/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.3	<0.1	<0.1	0.1	<0.1
6:2 FTS	µg/kg	0.2	<0.1	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	0.3	<0.2	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	91	97	95	95	92
Surrogate $^{13}C_2$ *PFOA*	%	89	90	90	90	91
Extracted ISTD $^{18}O_2$ *PFHxS*	%	84	81	86	82	84
Extracted ISTD $^{13}C_4$ *PFOS*	%	99	95	96	90	90
Extracted ISTD $^{13}C_4$ *PFOA*	%	101	98	96	94	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	111	93	99	94	109
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	156	116	101	120	107
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Total Positive PFOS & PFOA	µg/kg	0.3	<0.1	<0.1	0.3	<0.1
Total Positive PFAS	µg/kg	0.8	<0.1	<0.1	0.5	<0.1

PFAS in Soils Short				
Our Reference		331896-101	331896-104	331896-107
Your Reference	UNITS	340	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9
Date Sampled		28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	04/09/2023	04/09/2023	04/09/2023
Date analysed	-	04/09/2023	04/09/2023	04/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	0.3	0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	0.9	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	0.3	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	99	93	97
Surrogate $^{13}C_2$ *PFOA*	%	92	87	89
Extracted ISTD $^{18}O_2$ *PFHxS*	%	77	82	82
Extracted ISTD $^{13}C_4$ *PFOS*	%	86	95	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	89	100	100
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	89	150	90
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	91	184	113
Total Positive PFHxS & PFOS	µg/kg	<0.1	1.2	0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	1.2	<0.1
Total Positive PFAS	µg/kg	<0.1	1.5	0.1

Moisture						
Our Reference		331896-1	331896-4	331896-5	331896-8	331896-9
Your Reference	UNITS	307	307	307	307	307
Depth		0.2-0.4	1.5-1.7	1.9-2.1	4.8-5	5.8-6
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	5.2	9.5	1.8	12	13

Moisture						
Our Reference		331896-10	331896-12	331896-14	331896-17	331896-18
Your Reference	UNITS	307	331	331	331	331
Depth		6.8-7	0.1-0.3	1-1.2	2.5-2.7	3-3.2
Date Sampled		25/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	17	11	12	23	14

Moisture						
Our Reference		331896-19	331896-20	331896-21	331896-22	331896-23
Your Reference	UNITS	331	331	331	331	331
Depth		3.9-4.1	4.8-5	5.2-5.4	5.7-5.9	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	8.8	15	35	36	14

Moisture						
Our Reference		331896-24	331896-25	331896-26	331896-27	331896-28
Your Reference	UNITS	331	331	331	331	331
Depth		6.8-7	7.3-7.5	7.8-8	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	18	16	17	21	19

Moisture						
Our Reference		331896-29	331896-31	331896-32	331896-34	331896-36
Your Reference	UNITS	332	332	333	333	333
Depth		0.1-0.3	1-1.2	0.1-0.3	1-1.2	2-2.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	6.3	13	4.7	5.5	1.8

Moisture						
Our Reference		331896-37	331896-39	331896-42	331896-44	331896-45
Your Reference	UNITS	333	333	333	333	334
Depth		2.4-2.6	4.5-4.7	5.8-6	7.3-7.5	0.1-0.3
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	10	15	16	15	8.0

Moisture						
Our Reference		331896-49	331896-50	331896-51	331896-53	331896-54
Your Reference	UNITS	334	334	334	334	334
Depth		2-2.2	2.5-2.7	3-3.2	4.5-4.7	5.5-5.7
Date Sampled		29/08/23	29/08/23	29/08/2023	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	28	15	32	25	37

Moisture						
Our Reference		331896-55	331896-60	331896-61	331896-63	331896-65
Your Reference	UNITS	334	337	337	337	337
Depth		6-6.2	0.2-0.4	0.5-0.7	1.5-1.7	2.4-2.6
Date Sampled		29/08/23	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	17	14	4.3	3.3	2.7

Moisture						
Our Reference		331896-68	331896-70	331896-71	331896-72	331896-74
Your Reference	UNITS	337	337	337	338	338
Depth		4.8-5	6.8-7	7.8-8	0.2-0.4	1-1.2
Date Sampled		25/08/23	25/08/2023	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	14	16	19	3.7	8.8

Moisture						
Our Reference		331896-76	331896-79	331896-80	331896-82	331896-83
Your Reference	UNITS	338	338	338	338	339
Depth		2.1-2.3	4.8-5	5.8-6	7.8-8	0.2-0.4
Date Sampled		25/08/23	25/08/23	25/08/23	25/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	4.8	12	17	15	3.9

Moisture						
Our Reference		331896-85	331896-86	331896-88	331896-90	331896-91
Your Reference	UNITS	339	339	339	339	339
Depth		1-1.2	1.6-1.8	2.8-3	4.8-5	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	6.6	2.9	3.4	12	13

Moisture						
Our Reference		331896-93	331896-94	331896-95	331896-96	331896-99
Your Reference	UNITS	339	340	340	340	340
Depth		7.8-8	0.3-0.5	0.8-1	1.1-1.3	2.8-3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	17	5.4	9.7	2.1	8.9

Moisture						
Our Reference		331896-101	331896-104	331896-107	331896-110	331896-113
Your Reference	UNITS	340	341	341	341	341
Depth		3.6-3.8	0.2-0.4	1.7-1.9	3.2-3.4	5.8-6
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Moisture	%	8.2	17	3.2	4.2	2.7

Moisture				
Our Reference		331896-114	331896-115	331896-116
Your Reference	UNITS	BD2/20230825	BD4/20230825	BD2/20230828
Depth		-	-	-
Date Sampled		25/08/2023	25/08/2023	28/08/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	02/09/2023	02/09/2023	02/09/2023
Moisture	%	17	17	11

Asbestos ID - soils NEPM						
Our Reference		331896-1	331896-4	331896-12	331896-14	331896-17
Your Reference	UNITS	307	307	331	331	331
Depth		0.2-0.4	1.5-1.7	0.1-0.3	1-1.2	2.5-2.7
Date Sampled		25/08/23	25/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	513.33	319.66	297.79	289.59	228.53
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	0.6593	<0.1	13.8413
Asbestos ID in soil <0.1g/kg*	-	Chrysotile Amosite	Chrysotile	See Above	No visible asbestos detected	See Above
ACM >7mm Estimation*	g	0.0103	–	0.1963	–	2.9370
FA and AF Estimation*	g	–	0.0030	–	–	0.2262
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	0.0990

Asbestos ID - soils NEPM						
Our Reference		331896-18	331896-20	331896-29	331896-31	331896-32
Your Reference	UNITS	331	331	332	332	333
Depth		3-3.2	4.8-5	0.1-0.3	1-1.2	0.1-0.3
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	272.69	316.06	182.52	332.08	290.09
Sample Description	-	Brown sandy soil & rocks	Black sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	Amosite	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	0.0202	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	0.0061	<0.001

Asbestos ID - soils NEPM						
Our Reference		331896-34	331896-36	331896-39	331896-45	331896-49
Your Reference	UNITS	333	333	333	334	334
Depth		1-1.2	2-2.2	4.5-4.7	0.1-0.3	2-2.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	369.11	472.13	198.97	370.21	321.86
Sample Description	-	Brown sandy soil & rocks	Grey coarse-grained soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Black sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	0.3305	<0.1	1.1263	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	See Above	No visible asbestos detected	See Above	Chrysotile	Chrysotile
ACM >7mm Estimation*	g	–	–	0.2241	–	–
FA and AF Estimation*	g	0.1220	–	–	0.0057	0.0020
FA and AF Estimation*#2	%(w/w)	0.0331	<0.001	<0.001	0.0015	<0.001

Asbestos ID - soils NEPM						
Our Reference		331896-51	331896-60	331896-63	331896-72	331896-74
Your Reference	UNITS	334	337	337	338	338
Depth		3-3.2	0.2-0.4	1.5-1.7	0.2-0.4	1-1.2
Date Sampled		29/08/2023	25/08/23	25/08/23	25/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	270.69	407.15	219.14	563.32	321.78
Sample Description	-	Brown coarse-grained soil & rocks	Grey sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	Amosite	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	0.0017	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM						
Our Reference		331896-83	331896-85	331896-94	331896-95	331896-96
Your Reference	UNITS	339	339	340	340	340
Depth		0.2-0.4	1-1.2	0.3-0.5	0.8-1	1.1-1.3
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	545.76	301.69	700	194.96	247.04
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Grey sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM				
Our Reference		331896-99	331896-104	331896-107
Your Reference	UNITS	340	341	341
Depth		2.8-3	0.2-0.4	1.7-1.9
Date Sampled		28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date analysed	-	06/09/2023	06/09/2023	06/09/2023
Sample mass tested	g	294.62	487.88	284.52
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Grey sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	0.1354	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	See Above	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	0.0661	–
FA and AF Estimation*#2	%(w/w)	<0.001	0.0135	<0.001

VOCs in water		
Our Reference		331896-121
Your Reference	UNITS	Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date Extracted	-	01/09/2023
Date Analysed	-	04/09/2023
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1

VOCs in water		
Our Reference		331896-121
Your Reference	UNITS	Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	97
Surrogate 4-Bromofluorobenzene	%	104

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	331896-121
Your Reference		Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date extracted	-	01/09/2023
Date analysed	-	04/09/2023
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	97
Surrogate 4-Bromofluorobenzene	%	104

svTRH (C10-C40) in Water		
Our Reference	UNITS	331896-121
Your Reference		Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date extracted	-	04/09/2023
Date analysed	-	04/09/2023
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	61

PAHs in Water		
Our Reference		331896-121
Your Reference	UNITS	Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date extracted	-	04/09/2023
Date analysed	-	04/09/2023
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	76

Metals in Waters - Acid extractable		
Our Reference		331896-121
Your Reference	UNITS	Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date prepared	-	04/09/2023
Date analysed	-	04/09/2023
Arsenic - Total	mg/L	<0.05
Cadmium - Total	mg/L	<0.01
Chromium - Total	mg/L	<0.01
Copper - Total	mg/L	<0.01
Lead - Total	mg/L	<0.03
Mercury - Total	mg/L	<0.0005
Nickel - Total	mg/L	<0.02
Zinc - Total	mg/L	<0.02

Total Phenolics in Water		
Our Reference		331896-121
Your Reference	UNITS	Rinsate 1/20230829
Depth		-
Date Sampled		29/08/23
Type of sample		Water
Date extracted	-	04/09/2023
Date analysed	-	04/09/2023
Total Phenolics (as Phenol)	mg/L	<0.05

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: Total PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			06/09/2023	[NT]	[NT]	[NT]	[NT]	06/09/2023	[NT]
Total PCB (Aroclor 1016-1260)	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	127	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-49
Date Extracted	-			01/09/2023	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date Analysed	-			04/09/2023	18	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	97	84
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	18	<1	<1	0	105	96
2,2-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	90	94
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	92	86
1,1-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	18	4	4	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	18	2	2	0	94	87
dibromomethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	92	90
bromodichloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	86	93
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	18	2000	2700	30	91	90
1,3-dichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	18	<1	<1	0	80	91
1,2-dibromoethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	18	<1	<1	0	89	87
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	18	2100	2400	13	90	133
bromoform	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	18	870	940	8	89	90
styrene	mg/kg	1	Org-023	<1	18	230	200	14	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-49
o-Xylene	mg/kg	1	Org-023	<1	18	290	300	3	89	91
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	18	1200	35	189	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	18	43	39	10	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	18	14	13	7	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	18	44	41	7	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	18	170	170	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	18	19	18	5	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	18	11	10	10	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	18	9	8	12	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	18	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	18	97	98	1	94	100
Surrogate aaa-Trifluorotoluene	%		Org-023	83	18	84	91	8	86	91
Surrogate Toluene-d_8	%		Org-023	99	18	102	102	0	99	101
Surrogate 4-Bromofluorobenzene	%		Org-023	101	18	122	122	0	98	105

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date Extracted	-			[NT]	28	01/09/2023	01/09/2023		[NT]	[NT]
Date Analysed	-			[NT]	28	04/09/2023	04/09/2023		[NT]	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	28	4	2	67	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	28	0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	28	1300	700	60	[NT]	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	28	1300	580	77	[NT]	[NT]
bromoform	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	28	630	300	71	[NT]	[NT]
styrene	mg/kg	1	Org-023	[NT]	28	29	7	122	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	28	190	80	81	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	28	24	10	82	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	28	19	7	92	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	28	1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	28	10	3	108	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	28	30	10	100	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	28	7	2	111	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	28	4	1	120	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	28	65	74	13	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	28	88	85	3	[NT]	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	28	122	112	9	[NT]	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	28	105	103	2	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			06/09/2023	[NT]	[NT]	[NT]	[NT]	06/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	106	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	106	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	79	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	91	88
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	91	88
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	94	90
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	91	91
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	90	88
m+p-xylene	mg/kg	2	Org-023	<2	1	2	<2	0	89	85
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	89	86
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	83	1	90	90	0	86	72

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	04/09/2023	04/09/2023		04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	18	10000	12000	18	94	74
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	18	13000	14000	7	94	74
Benzene	mg/kg	0.2	Org-023	[NT]	18	2	2	0	86	81
Toluene	mg/kg	0.5	Org-023	[NT]	18	2000	2700	30	101	68
Ethylbenzene	mg/kg	1	Org-023	[NT]	18	2100	2400	13	105	69
m+p-xylene	mg/kg	2	Org-023	[NT]	18	870	940	8	90	75
o-Xylene	mg/kg	1	Org-023	[NT]	18	290	300	3	88	78
Naphthalene	mg/kg	1	Org-023	[NT]	18	8	7	13	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	18	84	91	8	83	71

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	28	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	28	04/09/2023	04/09/2023		04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	28	3000	2900	3	93	112
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	28	3100	2900	7	93	112
Benzene	mg/kg	0.2	Org-023	[NT]	28	1	0.9	11	92	115
Toluene	mg/kg	0.5	Org-023	[NT]	28	1300	700	60	93	111
Ethylbenzene	mg/kg	1	Org-023	[NT]	28	1300	580	77	94	114
m+p-xylene	mg/kg	2	Org-023	[NT]	28	630	300	71	92	111
o-Xylene	mg/kg	1	Org-023	[NT]	28	190	80	81	92	113
Naphthalene	mg/kg	1	Org-023	[NT]	28	6	2	100	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	28	88	85	3	89	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	04/09/2023	04/09/2023		04/09/2023	04/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	45	<25	<25	0	108	103
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	45	<25	<25	0	108	103
Benzene	mg/kg	0.2	Org-023	[NT]	45	<0.2	<0.2	0	111	108
Toluene	mg/kg	0.5	Org-023	[NT]	45	<0.5	<0.5	0	108	104
Ethylbenzene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	109	103
m+p-xylene	mg/kg	2	Org-023	[NT]	45	<2	<2	0	105	100
o-Xylene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	107	104
Naphthalene	mg/kg	1	Org-023	[NT]	45	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	45	92	92	0	95	91

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	04/09/2023	04/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	65	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	65	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	65	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	65	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	65	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	65	93	91	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	83	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	83	04/09/2023	04/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	83	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	83	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	83	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	83	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	83	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	83	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	83	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	83	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	83	84	93	10	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	04/09/2023	04/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	94	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	94	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	94	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	94	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	94	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	94	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	94	80	95	17	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			03/09/2023	1	02/09/2023	02/09/2023		02/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	123	96
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	111	#
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	#
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	123	96
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	111	#
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	#
Surrogate o-Terphenyl	%		Org-020	93	1	95	93	2	98	97

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	03/09/2023	03/09/2023		03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	18	2200	2300	4	117	105
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	18	2400	2800	15	107	100
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	18	500	460	8	100	#
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	18	1400	1600	13	117	105
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	18	2700	3100	14	107	100
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	18	210	170	21	100	#
Surrogate o-Terphenyl	%		Org-020	[NT]	18	#	#		93	86

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	28	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	28	03/09/2023	03/09/2023		02/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	28	810	790	2	127	125
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	28	830	770	8	109	113
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	28	<100	<100	0	100	70
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	28	460	450	2	127	125
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	28	880	810	8	109	113
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	28	<100	<100	0	100	70
Surrogate o-Terphenyl	%		Org-020	[NT]	28	106	111	5	96	88

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	03/09/2023	03/09/2023		03/09/2023	03/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	45	<50	<50	0	128	124
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	45	380	400	5	115	120
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	45	720	640	12	86	114
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	45	<50	<50	0	128	124
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	45	840	800	5	115	120
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	45	810	720	12	86	114
Surrogate o-Terphenyl	%		Org-020	[NT]	45	92	98	6	92	83

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	03/09/2023	03/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	65	88	89	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	83	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	83	02/09/2023	02/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	83	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	83	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	83	86	85	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	02/09/2023	02/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	94	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	94	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	94	82	84	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	116	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	116	02/09/2023	02/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	116	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	116	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	116	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	116	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	116	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	116	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	116	84	85	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	109	122
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	105
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	107	99
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	107
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	112
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	112
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	117	100
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	102	104
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	93	1	99	98	1	102	102

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	18	5.3	6.0	12	109	79
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	105	102
Fluorene	mg/kg	0.1	Org-022/025	[NT]	18	0.1	0.1	0	105	102
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	18	0.5	0.4	22	100	#
Anthracene	mg/kg	0.1	Org-022/025	[NT]	18	0.2	<0.1	67	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	106	#
Pyrene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	105	#
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	111	#
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	18	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	18	<0.05	<0.05	0	98	#
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	18	100	100	0	95	98

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	28	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	28	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	28	4.3	3.7	15	111	101
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	111	111
Fluorene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	107	99
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	114	105
Anthracene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	110	100
Pyrene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	113	103
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	113	95
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	28	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	28	<0.05	<0.05	0	110	68
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	28	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	28	101	99	2	98	97

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	45	0.4	0.4	0	107	122
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	45	0.5	1.4	95	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	0.2	67	107	105
Fluorene	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	0.4	120	103	101
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	45	1.5	9.2	144	102	#
Anthracene	mg/kg	0.1	Org-022/025	[NT]	45	0.6	2.1	111	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	45	4.3	13	101	106	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	45	4.4	11	86	109	#
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	2.2	5.2	81	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	45	2.3	5.7	85	113	105
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	45	6.2	13	71	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	45	1.8	2.8	43	112	100
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	45	1.8	3.0	50	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	45	0.5	0.8	46	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	45	2.8	4.2	40	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	45	100	99	1	96	91

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	65	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	65	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	65	98	104	6	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	83	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	83	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	83	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	83	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	83	98	95	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	94	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	94	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	94	101	95	6	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	108
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	108
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	123	115
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	118	111
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	108
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	125	99
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	132	124
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	123	106
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	114	61
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	119	119
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	1	110	111	1	108	108

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	112	109
HCB	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	108	105
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	65	63
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	109	109
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	108	106
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	18	0.6	0.9	40	117	120
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	122	129
Endrin	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	60	62
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	18	3.7	7.1	63	104	109
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	18	0.2	0.1	67	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	103	101
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	18	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	18	103	102	1	105	103

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	116	110
HCB	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	110	104
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	101	111
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	113	109
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	104	104
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	121	119
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	130	122
Endrin	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	113	107
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	72	70
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	121	117
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	45	<1	<1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	45	<1.0	<1.0	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	45	104	106	2	108	106

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	83	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	83	01/09/2023	01/09/2023		01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	116	110
HCB	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	106	104
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	111	129
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	111	105
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	104	98
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	121	113
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	124	116
Endrin	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	100	105
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	68	70
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	123	123
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	83	104	108	4	106	101

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	94	109	108	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	131	131
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	104
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	123	136
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	118
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	110
Fenthion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	119	130
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	109
Phosalone	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	1	110	111	1	108	108

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	131	129
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	99	99
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	111	115
Malathion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	112	112
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	102	105
Fenthion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	105	115
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	104	106
Phosalone	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	45	104	106	2	105	103

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	94	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	123	115
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	106	101
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	107	105
Malathion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	116	112
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	108	104
Fenthion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	95	97
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	102	102
Phosalone	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	94	109	108	1	108	106

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	01/09/2023	01/09/2023
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	01/09/2023	01/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	113	113
Ronnel	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	102	99
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	97	103
Malathion	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	110	108
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	102	102
Parathion	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	93
Ethion	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	94	94
Surrogate TCMX	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	106	101

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date extracted	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	127	110
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	1	110	111	1	108	108

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date extracted	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	119	110
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	18	<1	<1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	18	103	102	1	105	103

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date extracted	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	45	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	120	110
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	45	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	45	104	106	2	108	106

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	331896-104
Date extracted	-			[NT]	83	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	83	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	115	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	83	104	108	4	106	101

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	94	109	108	1	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date prepared	-			01/09/2023	1	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	103	114
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	101	108
Chromium	mg/kg	1	Metals-020	<1	1	2	3	40	105	73
Copper	mg/kg	1	Metals-020	<1	1	21	11	62	102	101
Lead	mg/kg	1	Metals-020	<1	1	13	14	7	106	#
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	116	#
Nickel	mg/kg	1	Metals-020	<1	1	4	3	29	103	106
Zinc	mg/kg	1	Metals-020	<1	1	17	27	45	101	##

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	331896-29
Date prepared	-			[NT]	18	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	18	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Arsenic	mg/kg	4	Metals-020	[NT]	18	<4	<4	0	108	107
Cadmium	mg/kg	0.4	Metals-020	[NT]	18	2	1	67	104	96
Chromium	mg/kg	1	Metals-020	[NT]	18	510	630	21	117	104
Copper	mg/kg	1	Metals-020	[NT]	18	33	44	29	109	121
Lead	mg/kg	1	Metals-020	[NT]	18	2900	2700	7	121	105
Mercury	mg/kg	0.1	Metals-021	[NT]	18	38	12	104	120	99
Nickel	mg/kg	1	Metals-020	[NT]	18	15	17	12	106	104
Zinc	mg/kg	1	Metals-020	[NT]	18	740	750	1	107	103

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	331896-60
Date prepared	-			[NT]	28	01/09/2023	01/09/2023		01/09/2023	01/09/2023
Date analysed	-			[NT]	28	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Arsenic	mg/kg	4	Metals-020	[NT]	28	<4	<4	0	105	105
Cadmium	mg/kg	0.4	Metals-020	[NT]	28	<0.4	<0.4	0	100	100
Chromium	mg/kg	1	Metals-020	[NT]	28	18	16	12	109	105
Copper	mg/kg	1	Metals-020	[NT]	28	2	4	67	105	104
Lead	mg/kg	1	Metals-020	[NT]	28	88	72	20	110	95
Mercury	mg/kg	0.1	Metals-021	[NT]	28	2.1	1.3	47	128	119
Nickel	mg/kg	1	Metals-020	[NT]	28	<1	<1	0	103	97
Zinc	mg/kg	1	Metals-020	[NT]	28	52	61	16	101	101

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331896-104
Date prepared	-			[NT]	45	01/09/2023	01/09/2023		[NT]	01/09/2023
Date analysed	-			[NT]	45	04/09/2023	04/09/2023		[NT]	04/09/2023
Arsenic	mg/kg	4	Metals-020	[NT]	45	<4	<4	0	[NT]	104
Cadmium	mg/kg	0.4	Metals-020	[NT]	45	<0.4	<0.4	0	[NT]	93
Chromium	mg/kg	1	Metals-020	[NT]	45	15	24	46	[NT]	#
Copper	mg/kg	1	Metals-020	[NT]	45	73	44	50	[NT]	126
Lead	mg/kg	1	Metals-020	[NT]	45	27	31	14	[NT]	#
Mercury	mg/kg	0.1	Metals-021	[NT]	45	0.3	0.6	67	[NT]	#
Nickel	mg/kg	1	Metals-020	[NT]	45	16	20	22	[NT]	88
Zinc	mg/kg	1	Metals-020	[NT]	45	49	56	13	[NT]	##

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	65	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	04/09/2023	04/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	65	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	65	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	65	3	2	40	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	65	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	65	2	2	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	65	1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	65	6	6	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	83	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	83	04/09/2023	04/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	83	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	83	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	83	2	2	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	83	18	10	57	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	83	4	3	29	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	83	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	83	3	2	40	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	83	5	4	22	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	94	01/09/2023	01/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	04/09/2023	04/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	94	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	94	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	94	3	3	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	94	28	25	11	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	94	3	3	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	94	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	94	4	4	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	94	4	4	0	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-17
Date prepared	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Date analysed	-			04/09/2023	1	04/09/2023	04/09/2023		04/09/2023	04/09/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	101	113

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	29	04/09/2023	04/09/2023		[NT]	[NT]
Date analysed	-			[NT]	29	04/09/2023	04/09/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	29	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	331896-12
Date prepared	-			04/09/2023	45	04/09/2023	04/09/2023		04/09/2023	01/09/2023
Date analysed	-			04/09/2023	45	04/09/2023	04/09/2023		04/09/2023	05/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	45	0.2	<0.1	67	114	103
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	45	2.3	3.0	26	98	86
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	45	<0.1	<0.1	0	115	81
6:2 FTS	µg/kg	0.1	Org-029	<0.1	45	<0.1	<0.1	0	111	73
8:2 FTS	µg/kg	0.2	Org-029	<0.2	45	<0.2	<0.2	0	114	120
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	94	45	93	95	2	95	81
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	94	45	79	77	3	96	84
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	92	45	78	81	4	89	79
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	99	45	95	96	1	99	139
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	101	45	104	114	9	97	129
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	45	168	178	6	102	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	119	45	#	181		107	#

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date Extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date Analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	101	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331896-121
Date extracted	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	04/09/2023
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	04/09/2023
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	94
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	107
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	109
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	91	94
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	107
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	109
Surrogate o-Terphenyl	%		Org-020	84	[NT]	[NT]	[NT]	[NT]	69	67

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	331896-121
Date extracted	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	04/09/2023
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	04/09/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	81	112
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	94
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	76	60
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	96
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	88
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	79
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	79	83
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	75
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	80	[NT]	[NT]	[NT]	[NT]	115	62

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Arsenic - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	108	[NT]
Cadmium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chromium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	102	[NT]
Copper - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	103	[NT]
Lead - Total	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury - Total	mg/L	0.0005	Metals-021	<0.0005	[NT]	[NT]	[NT]	[NT]	102	[NT]
Nickel - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	103	[NT]
Zinc - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: Total Phenolics in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Date analysed	-			04/09/2023	[NT]	[NT]	[NT]	[NT]	04/09/2023	[NT]
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	[NT]	[NT]	[NT]	[NT]	101	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples received in good order: VOC vials have headspace

TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in sample/s 12ms,17,18,19,21,22,29ms have caused interference.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 331896-1 for Cu and Zn. Therefore a triplicate result has been issued as laboratory sample number 331896-122.
- The laboratory RPD acceptance criteria has been exceeded for 331896-45 for Cr and Cu. Therefore a triplicate result has been issued as laboratory sample number 331896-123.
- The laboratory RPD acceptance criteria has been exceeded for 331896-83 for Cu. Therefore a triplicate result has been issued as laboratory sample number 331896-124.
- The laboratory RPD acceptance criteria has been exceeded for 331896-28 for Hg. Therefore a triplicate result has been issued as laboratory sample number 331896-125.
- The laboratory RPD acceptance criteria has been exceeded for 331896-18 for Hg. Therefore a triplicate result has been issued as laboratory sample number 331896-126.
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- ## Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

PAHs in Soil - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in sample/s 331896-29ms,104ms have caused interference.
The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 331896-17.
The laboratory RPD acceptance criteria has been exceeded for 331896-45,45d. Therefore a triplicate result has been issued as laboratory sample number 331896-124.

OC's in Soil - The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 331896-29,32,45,45d.
The RPD for duplicate results is accepted due to the non homogenous nature of sample/s 331896-18,18d.

PCBs in Soil - The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 331896-17,18.18d,104,107.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 331896-1; Chrysotile & Amosite asbestos identified in 0.0687g of fibre cement material >7mm
Sample 331896-4; Chrysotile asbestos identified in 0.0030g of loose fibre bundles
Sample 331896-12; Chrysotile asbestos identified in 1.3089g of fibre cement material >7mm
Sample 331896-17; Chrysotile asbestos identified in 19.5800g of fibre cement material >7mm
Sample 331896-17; Chrysotile & Amosite asbestos identified in 0.2827g of fibrous matted material
Sample 331896-31; Amosite asbestos identified in 0.0253g of fibrous matted material
Sample 331896-34; Chrysotile, Amosite & Crocidolite asbestos identified in 0.1525g of fibrous matted material
Sample 331896-39; Chrysotile asbestos identified in 22.4100g of bitumen material >7mm
Sample 331896-45; Chrysotile asbestos identified in 0.0057g of loose fibre bundles
Sample 331896-49; Chrysotile asbestos identified in 0.0025g of fibrous matted material
Sample 331896-51; Amosite asbestos identified in 0.1735g of bitumen material >7mm
Sample 331896-104; Chrysotile & Amosite asbestos identified in 0.0734g of fibrous matted material

Note: All samples analysed as received. However, samples 311896-4, 12, 14, 17, 18, 20, 29, 31, 32, 34, 36, 39, 45, 49, 51, 60, 63, 74, 85, 95, 96, 99, 107 are below the minimum recommended 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

PCBs in Soil - We have been unable to determine the aroclor for 104 and 107. They have been reported as total PCB instead.

VOCs/BTEX vTRH in soil - The RPD for duplicate results is accepted due to the non homogenous nature of samples 331896-28,28d.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	331896
Date Sample Received	30/08/2023
Date Instructions Received	31/08/2023
Date Results Expected to be Reported	07/09/2023

Sample Condition

Samples received in appropriate condition for analysis	VOC vials have headspace
No. of Samples Provided	120 Soil, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	2
Cooling Method	Ice
Sampling Date Provided	YES

Comments

'BD2/20230823' received with jar body labelled 'BD1' - assumed correct

'338/0.2-0.4' bag sample received double bagged. Inside bag labelled '339', outside bag labelled '338' - went off by outside bag label

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
307-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓		✓							
307-0.5-0.7																			✓
307-1-1.2																			✓
307-1.5-1.7			✓	✓	✓				✓			✓							
307-1.9-2.1			✓	✓	✓				✓										
307-2.8-3																			✓
307-3.8-4																			✓
307-4.8-5			✓	✓															
307-5.8-6			✓	✓	✓				✓										
307-6.8-7			✓	✓															
307-7.8-8																			✓
331-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
331-0.5-0.7																			✓
331-1-1.2			✓	✓	✓				✓			✓							
331-1.5-1.7																			✓
331-2-2.2																			✓
331-2.5-2.7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
331-3-3.2	✓	✓	✓	✓	✓	✓		✓	✓			✓							
331-3.9-4.1	✓		✓	✓	✓				✓										
331-4.8-5	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓							

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
331-5.2-5.4	✓		✓	✓	✓				✓		✓								
331-5.7-5.9	✓		✓	✓															
331-6.3-6.5	✓	✓	✓	✓	✓				✓		✓								
331-6.8-7	✓		✓	✓															
331-7.3-7.5			✓	✓															
331-7.8-8	✓		✓	✓	✓	✓		✓	✓										
331-8.3-8.5	✓		✓	✓															
331-8.8-9	✓		✓	✓	✓				✓										
332-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
332-0.4-0.6																			✓
332-1-1.2			✓	✓	✓	✓		✓	✓		✓	✓							
333-0.1-0.3			✓	✓	✓	✓		✓	✓			✓							
333-0.5-0.7																			✓
333-1-1.2			✓	✓	✓				✓			✓							
333-1.5-1.7																			✓
333-2-2.2			✓	✓	✓				✓	✓		✓							
333-2.4-2.6			✓	✓	✓				✓										
333-3-3.2																			✓
333-4.5-4.7			✓	✓	✓				✓			✓							
333-5-5.2																			✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
333-5.5-5.7																			✓
333-5.8-6			✓	✓	✓				✓										
333-6.3-6.5																			✓
333-7.3-7.5			✓	✓															
334-0.1-0.3			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
334-0.5-0.7																			✓
334-1-1.2																			✓
334-1.5-1.7																			✓
334-2-2.2	✓		✓	✓	✓				✓			✓							
334-2.5-2.7	✓		✓	✓	✓				✓	✓									
334-3-3.2	✓		✓	✓	✓				✓	✓	✓	✓							
334-3.5-3.7																			✓
334-4.5-4.7			✓	✓															
334-5.5-5.7			✓	✓	✓				✓										
334-6-6.2			✓	✓	✓				✓		✓								
334-6.3-6.5																			✓
334-6.8-7																			✓
334-7.3-7.5																			✓
334-7.8-8																			✓
337-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓		✓							

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
337-0.5-0.7			✓	✓															
337-1-1.2																			✓
337-1.5-1.7			✓	✓	✓				✓	✓		✓							
337-2-2.2																			✓
337-2.4-2.6			✓	✓	✓				✓										
337-2.8-3																			✓
337-3.8-4																			✓
337-4.8-5	✓		✓	✓	✓				✓										
337-5.8-6																			✓
337-6.8-7			✓	✓															
337-7.8-8			✓	✓															
338-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓		✓							
338-0.5-0.7																			✓
338-1-1.2			✓	✓	✓				✓	✓		✓							
338-1.5-1.7																			✓
338-2.1-2.3			✓	✓	✓				✓										
338-2.8-3																			✓
338-3.8-4																			✓
338-4.8-5			✓	✓	✓				✓										
338-5.8-6	✓		✓	✓	✓				✓										

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
338-6.8-7																			✓
338-7.8-8			✓	✓															
339-0.2-0.4			✓	✓	✓	✓		✓	✓		✓	✓							
339-0.5-0.7																			✓
339-1-1.2			✓	✓	✓				✓		✓	✓							
339-1.6-1.8			✓	✓	✓				✓		✓								
339-2.3-2.5																			✓
339-2.8-3			✓	✓															
339-3.8-4																			✓
339-4.8-5			✓	✓	✓				✓										
339-5.8-6	✓		✓	✓															
339-6.8-7																			✓
339-7.8-8			✓	✓															
340-0.3-0.5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
340-0.8-1			✓	✓	✓				✓	✓		✓							
340-1.1-1.3			✓	✓	✓				✓			✓							
340-1.6-1.8																			✓
340-2.3-2.5																			✓
340-2.8-3			✓	✓	✓				✓		✓	✓							
340-3.2-3.4																			✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
340-3.6-3.8			✓	✓	✓				✓		✓								
340-4.6-4.8																			✓
340-5.6-5.8																			✓
341-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
341-0.7-0.9																			✓
341-1.2-1.4																			✓
341-1.7-1.9			✓	✓	✓	✓		✓	✓		✓	✓							
341-2.3-2.5																			✓
341-2.8-3																			✓
341-3.2-3.4			✓	✓	✓				✓										
341-3.8-4																			✓
341-4.8-5																			✓
341-5.8-6			✓	✓	✓				✓										
BD2/20230825			✓	✓															
BD4/20230825			✓	✓															
BD2/20230828			✓	✓	✓				✓										
Trip Spike/20230825			✓																
Trip Spike/20230829			✓																
Trip Blank/20230825			✓	✓															
Trip Blank/20230829			✓	✓															

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	PFAS in Soils Short	Asbestos ID - soils NEPM	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	Total Phenolicsin Water	On Hold
Rinsate 1/20230829													✓	✓	✓	✓	✓	✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

COC: 31/8/23 0648

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ	12 Ashley St, Chatswood NSW 2067
Email:	david.holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☑ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
1	307	0.2	0.4	25-08-23	S	G/B	x													
2	307	0.5	0.7	25-08-23	S	G/B													x	
3	307	1	1.2	25-08-23	S	G/B													x	
4	307	1.5	1.7	25-08-23	S	G/B					x									
5	307	1.9	2.1	25-08-23	S	G						x								
6	307	2.8	3	25-08-23	S	G													x	
7	307	3.8	4	25-08-23	S	G													x	
8	307	4.8	5	25-08-23	S	G							x							
9	307	5.8	6	25-08-23	S	G						x								
10	307	6.8	7	25-08-23	S	G							x							
11	307	7.8	8	25-08-23	S	G													x	
12	331	0.1	0.3	28-08-23	S	G/P/B	x											x		
13	331	0.5	0.7	28-08-23	S	G/P/B													x	
14	331	1	1.2	28-08-23	S	G/P/B					x									

Metals to analyse:				**LAB RECEIPT**	
Number of samples in container:		**Transported to laboratory by:**		**Lab Ref. No:**	331596.
Send results to:	Douglas Partners Pty Ltd			**Received by:**	EMILY
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666	**Date & Time:**	30/8 1535
Relinquished by:	PJ, 2:00pm, 30/8/23	**Date:**	30-08-23	**Signed:**	EW.
		Signed:			

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
15	331	1.5	1.7	28-08-23	S	G													x	
16	331	2	2.2	28-08-23	S	G/P/B													x	
17	331	2.5	2.7	28-08-23	S	G/P/B	x											x		
18	331	3	3.2	28-08-23	S	G/P/B			x					x	x					
19	331	3.9	4.1	28-08-23	S	G/P/B						x		x						
20	331	4.8	5	28-08-23	S	G/P/B			x					x	x			x		
21	331	5.2	5.4	28-08-23	S	G/P/B						x		x				x		
22	331	5.7	5.9	28-08-23	S	G/P/B							x	x						
23	331	6.3	6.5	28-08-23	S	G/P						x		x	x			x		
24	331	6.8	7	28-08-23	S	G/P							x	x						
25	331	7.3	7.5	28-08-23	S	G/P							x							
26	331	7.8	8	28-08-23	S	G/P				x				x						
27	331	8.3	8.5	28-08-23	S	G/P							x	x						
28	331	8.8	9	28-08-23	S	G/P						x		x						
29	332	0.1	0.3	29-08-23	S	G/P/B	x											x		
30	332	0.4	0.6	29-08-23	S	G/P/B													x	
31	332	1	1.2	29-08-23	S	G/P/B			x									x		
32	333	0.1	0.3	29-08-23	S	G/B			x											

331896
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
33	333	0.5	0.7	29-08-23	S	G/B													x	
34	333	1	1.2	29-08-23	S	G/B					x									
35	333	1.5	1.7	29-08-23	S	G/B													x	
36	333	2	2.2	29-08-23	S	G/B											x			
37	333	2.4	2.6	29-08-23	S	G/B						x								
38	333	3	3.2	29-08-23	S	G													x	
39	333	4.5	4.7	29-08-23	S	G/B					x									
40	333	5	5.2	29-08-23	S	G/B													x	
41	333	5.5	5.7	29-08-23	S	G/B													x	
42	333	5.8	6	29-08-23	S	G						x								
43	333	6.3	6.5	29-08-23	S	G													x	
44	333	7.3	7.5	29-08-23	S	G							x							
45	334	0.1	0.3	29-08-23	S	G/P/B	x											x		
46	334	0.5	0.7	29-08-23	S	G/P/B													x	
47	334	1	1.2	29-08-23	S	G/P/B													x	
48	334	1.5	1.7	29-08-23	S	G/P/B													x	
49	334	2	2.2	29-08-23	S	G/P/B					x			x						
50	334	2.5	2.7	29-08-23	S	G/P/B		x						x						

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G- Glass jar P-Plastic	Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	
S1	334	3	3.2	29-08-23	S	G/P/B								x			x	x		
S2	334	3.5	3.7	29-08-23	S	G/P/B													x	
S3	334	4.5	4.7	29-08-23	S	G/P/B							x							
S4	334	5.5	5.7	29-08-23	S	G/P/B						x								
S5	334	6	6.2	29-08-23	S	G/P						x						x		
S6	334	6.3	6.5	29-08-23	S	G/P													x	
S7	334	6.8	7	29-08-23	S	G/P													x	
S8	334	7.3	7.5	29-08-23	S	G/P													x	
S9	334	7.8	8	29-08-23	S	G/P													x	
60	337	0.2	0.4	25-08-23	S	G/B	x													
61	337	0.5	0.7	25-08-23	S	G/B							x							
62	337	1	1.2	25-08-23	S	G/B													x	
63	337	1.5	1.7	25-08-23	S	G/B											x			
64	337	2	2.2	25-08-23	S	G/B													x	
65	337	2.4	2.6	25-08-23	S	G						x								
66	337	2.8	3	25-08-23	S	G													x	
67	337	3.8	4	25-08-23	S	G													x	
68	337	4.8	5	25-08-23	S	G						x		x						
69	337	5.8	6	25-08-23	S	G													x	

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
70	337	6.8	7	25-08-23	S	G							x							
71	337	7.8	8	25-08-23	S	G							x							
72	338	0.2	0.4	25-08-23	S	G/B	x													
73	338	0.5	0.7	25-08-23	S	G/B													x	
74	338	1	1.2	25-08-23	S	G/B											x			
75	338	1.5	1.7	25-08-23	S	G/B													x	
76	338	2.1	2.3	25-08-23	S	G						x								
77	338	2.8	3	25-08-23	S	G													x	
78	338	3.8	4	25-08-23	S	G													x	
79	338	4.8	5	25-08-23	S	G						x								
80	338	5.8	6	25-08-23	S	G						x		x						
81	338	6.8	7	25-08-23	S	G													x	
82	338	7.8	8	25-08-23	S	G							x							
83	339	0.2	0.4	28-08-23	S	G/P/B			x									x		
84	339	0.5	0.7	28-08-23	S	G/P/B													x	
85	339	1	1.2	28-08-23	S	G/P/B					x							x		
86	339	1.6	1.8	28-08-23	S	G/P						x						x		
87	339	2.3	2.5	28-08-23	S	G/P													x	
88	339	2.8	3	28-08-23	S	G/P							x							

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
89	339	3.8	4	28-08-23	S	G/P													x	
90	339	4.8	5	28-08-23	S	G/P						x								
91	339	5.8	6	28-08-23	S	G/P							x	x						
92	339	6.8	7	28-08-23	S	G/P													x	
93	339	7.8	8	28-08-23	S	G/P							x							
94	340	0.3	0.5	28-08-23	S	G/P/B	x											x		
95	340	0.8	1	28-08-23	S	G/P/B											x			
96	340	1.1	1.3	28-08-23	S	G/P/B					x									
97	340	1.6	1.8	28-08-23	S	G/P/B													x	
98	340	2.3	2.5	28-08-23	S	G/P													x	
99	340	2.8	3	28-08-23	S	G/P/B					x							x		
100	340	3.2	3.4	28-08-23	S	G/P/B													x	
101	340	3.6	3.8	28-08-23	S	G/P						x						x		
102	340	4.6	4.8	28-08-23	S	G/P													x	
103	340	5.6	5.8	28-08-23	S	G/P													x	
104	341	0.2	0.4	28-08-23	S	G/P/B	x											x		
105	341	0.7	0.9	28-08-23	S	G/P/B													x	
106	341	1.2	1.4	28-08-23	S	G/P													x	
107	341	1.7	1.9	28-08-23	S	G/P/B			x									x		

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CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 30-08-23	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G- Glass jar P-Plastic	Analytes: Combo 8AN	Combo 4	Combo 5AN	Combo 5	Combo 3AN	Combo 3	TRH/BTEX	VOC	TPH (Silica Gel)	OCP	Combo 4AN	PFAS (short suite)	Hold	Notes/ Preservation/ Additional Requirements
108	341	2.3	2.5	28-08-23	S	G/P/B													x	
109	341	2.8	3	28-08-23	S	G/P/B													x	
110	341	3.2	3.4	28-08-23	S	G/P						x								
111	341	3.8	4	28-08-23	S	G/P													x	
112	341	4.8	5	28-08-23	S	G/P													x	
113	341	5.8	6	28-08-23	S	G/P						x								
SO	BD1/20230825			25-08-23	S	G												Please forward for interlab analysis		
114	BD2/20230825			25-08-23	S	G							x							
SO	BD3/20230825			25-08-23	S	G										—	—	Please forward for interlab analysis		
115	BD4/20230825			25-08-23	S	G							x							
SO	BD1/20230828			28-08-23	S	G/P												Please forward for interlab analysis		
116	BD2/20230828			28-08-23	S	G/P						x								
SO	BD3/20230828			28-08-23	S	G/P												Please forward for interlab analysis		
117	Trip Spike/20230825			25-08-23	S	G							x							
118	Trip Spike/20230829			29-08-23	S	G							x							
119	Trip Blank/20230825			25-08-23	S	G							x							
120	Trip Blank/20230829			29-08-23	S	G							x							
121	Rinsate 1/20230829			29-08-23	W	G/P								x					plus Combo CW004T	

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CERTIFICATE OF ANALYSIS 331896-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	additional analysis
Date samples received	30/08/2023
Date completed instructions received	11/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	19/09/2023
Date of Issue	06/10/2023

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Results Approved By
Amanda Chui, Air Toxics Team Leader
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Sean McAlary, Chemist
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

TCLP Preparation - Acid						
Our Reference		331896-A-12	331896-A-14	331896-A-17	331896-A-18	331896-A-19
Your Reference	UNITS	331	331	331	331	331
Depth		0.1-0.3	1-1.2	2.5-2.7	3-3.2	3.9-4.1
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	6.1	6.8	6.7	7.2	7.2
pH of soil TCLP (after HCl)	pH units	1.8	1.8	1.8	1.8	1.8
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.1	5.3	5.2	5.0

TCLP Preparation - Acid						
Our Reference		331896-A-21	331896-A-29	331896-A-31	331896-A-32	331896-A-34
Your Reference	UNITS	331	332	332	333	333
Depth		5.2-5.4	0.1-0.3	1-1.2	0.1-0.3	1-1.2
Date Sampled		28/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.4	9.0	8.8	9.0	8.9
pH of soil TCLP (after HCl)	pH units	1.8	1.9	1.9	1.9	1.9
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.1	5.0	5.1	5.4

TCLP Preparation - Acid						
Our Reference		331896-A-36	331896-A-37	331896-A-39	331896-A-44	331896-A-45
Your Reference	UNITS	333	333	333	333	334
Depth		2-2.2	2.4-2.6	4.5-4.7	7.3-7.5	0.1-0.3
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.5	8.3	8.3	8.4	8.7
pH of soil TCLP (after HCl)	pH units	1.9	1.9	1.8	1.8	1.9
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0	5.1

TCLP Preparation - Acid						
Our Reference		331896-A-51	331896-A-54	331896-A-55	331896-A-94	331896-A-104
Your Reference	UNITS	334	334	334	340	341
Depth		3-3.2	5.5-5.7	6-6.2	0.3-0.5	0.2-0.4
Date Sampled		29/08/2023	29/08/23	29/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.5	7.8	7.5	9.1	8.9
pH of soil TCLP (after HCl)	pH units	1.8	1.8	1.8	1.9	1.9
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.9	5.0	4.9	5.1	5.3

PAHs in TCLP (USEPA 1311)				
Our Reference		331896-A-29	331896-A-32	331896-A-45
Your Reference	UNITS	332	333	334
Depth		0.1-0.3	0.1-0.3	0.1-0.3
Date Sampled		29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023
Naphthalene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Acenaphthylene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Acenaphthene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Fluorene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Phenanthrene in TCLP	mg/L	<0.0001	<0.0001	0.0001
Anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Fluoranthene in TCLP	mg/L	<0.0001	<0.0001	0.0002
Pyrene in TCLP	mg/L	<0.0001	<0.0001	0.0002
Benzo(a)anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Chrysene in TCLP	mg/L	<0.0001	<0.0001	0.0001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.0002	<0.0002	<0.0002
Benzo(a)pyrene in TCLP	mg/L	<0.0001	<0.0001	0.0001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.0001	<0.0001	<0.0001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.0001	<0.0001	<0.0001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	0.0007
Surrogate p-Terphenyl-d14	%	102	105	104

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		331896-A-14	331896-A-17	331896-A-18	331896-A-19	331896-A-31
Your Reference	UNITS	331	331	331	331	332
Depth		1-1.2	2.5-2.7	3-3.2	3.9-4.1	1-1.2
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Chromium	mg/L	0.03	[NA]	0.02	[NA]	<0.01
Lead	mg/L	4.5	0.59	7.6	0.1	0.44
Mercury	mg/L	<0.0005	<0.0005	<0.0005	[NA]	<0.0005
Nickel	mg/L	[NA]	0.62	[NA]	[NA]	[NA]

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		331896-A-34	331896-A-36	331896-A-37	331896-A-39	331896-A-51
Your Reference	UNITS	333	333	333	333	334
Depth		1-1.2	2-2.2	2.4-2.6	4.5-4.7	3-3.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Chromium	mg/L	<0.01	[NA]	[NA]	0.03	0.03
Lead	mg/L	5.2	540	3.0	16	6.3
Mercury	mg/L	<0.0005	[NA]	[NA]	[NA]	[NA]

Metals from Leaching Fluid pH 2.9 or 5				
Our Reference		331896-A-54	331896-A-55	331896-A-104
Your Reference	UNITS	334	334	341
Depth		5.5-5.7	6-6.2	0.2-0.4
Date Sampled		29/08/23	29/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023
Chromium	mg/L	[NA]	[NA]	0.08
Lead	mg/L	0.1	2.5	9.7
Mercury	mg/L	[NA]	[NA]	<0.0005
Nickel	mg/L	[NA]	[NA]	<0.02

PFAS in TCLP Short						
Our Reference		331896-A-12	331896-A-21	331896-A-31	331896-A-44	331896-A-55
Your Reference	UNITS	331	331	332	333	334
Depth		0.1-0.3	5.2-5.4	1-1.2	7.3-7.5	6-6.2
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	0.02	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	0.02	0.07	<0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	0.01	<0.01	0.04	0.05
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	99	95	93	99	98
Surrogate $^{13}C_2$ *PFOA*	%	103	102	101	106	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	102	96	101	102	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	105	109	109	105	108
Extracted ISTD $^{13}C_4$ *PFOA*	%	110	131	117	109	112
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	103	#	119	107	114
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	119	198	135	122	130
Total Positive PFHxS & PFOS	µg/L	0.01	0.04	0.07	<0.01	<0.01
Total Positive PFOS & PFOA	µg/L	0.01	0.02	0.07	<0.01	<0.01
Total Positive PFAS	µg/L	0.01	0.06	0.07	0.04	0.05

PFAS in TCLP Short			
Our Reference		331896-A-94	331896-A-104
Your Reference	UNITS	340	341
Depth		0.3-0.5	0.2-0.4
Date Sampled		28/08/23	28/08/23
Type of sample		Soil	Soil
Date prepared	-	18/09/2023	18/09/2023
Date analysed	-	19/09/2023	19/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	0.04
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.03
Perfluorooctanoic acid PFOA	µg/L	<0.01	0.03
6:2 FTS	µg/L	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	98	95
Surrogate $^{13}C_2$ *PFOA*	%	101	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%	101	98
Extracted ISTD $^{13}C_4$ *PFOS*	%	111	107
Extracted ISTD $^{13}C_4$ *PFOA*	%	114	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	113	121
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	136	138
Total Positive PFHxS & PFOS	µg/L	<0.01	0.07
Total Positive PFOS & PFOA	µg/L	<0.01	0.06
Total Positive PFAS	µg/L	<0.01	0.10

ASLP Preparation - Neutral						
Our Reference		331896-A-12	331896-A-14	331896-A-17	331896-A-18	331896-A-19
Your Reference	UNITS	331	331	331	331	331
Depth		0.1-0.3	1-1.2	2.5-2.7	3-3.2	3.9-4.1
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.5	8.5	6.6	7.1	6.2

ASLP Preparation - Neutral						
Our Reference		331896-A-20	331896-A-21	331896-A-22	331896-A-23	331896-A-24
Your Reference	UNITS	331	331	331	331	331
Depth		4.8-5	5.2-5.4	5.7-5.9	6.3-6.5	6.8-7
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.3	7.0	6.3	6.2	6.2

ASLP Preparation - Neutral						
Our Reference		331896-A-26	331896-A-28	331896-A-31	331896-A-34	331896-A-36
Your Reference	UNITS	331	331	332	333	333
Depth		7.8-8	8.8-9	1-1.2	1-1.2	2-2.2
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.4	6.6	7.6	8.3	4.9

ASLP Preparation - Neutral						
Our Reference		331896-A-37	331896-A-39	331896-A-41	331896-A-44	331896-A-49
Your Reference	UNITS	333	333	333	333	334
Depth		2.4-2.6	4.5-4.7	5.5-5.7	7.3-7.5	2-2.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.4	5.8	7.5	6.4	8.3

ASLP Preparation - Neutral						
Our Reference		331896-A-50	331896-A-51	331896-A-54	331896-A-55	331896-A-57
Your Reference	UNITS	334	334	334	334	334
Depth		2.5-2.7	3-3.2	5.5-5.7	6-6.2	6.8-7
Date Sampled		29/08/23	29/08/2023	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	8.5	7.2	6.7	6.4	8.3

ASLP Preparation - Neutral			
Our Reference		331896-A-94	331896-A-104
Your Reference	UNITS	340	341
Depth		0.3-0.5	0.2-0.4
Date Sampled		28/08/23	28/08/23
Type of sample		Soil	Soil
pH of final Leachate	pH units	10.2	9.2

PAHs in Water Leach						
Our Reference		331896-A-18	331896-A-20	331896-A-21	331896-A-22	331896-A-23
Your Reference	UNITS	331	331	331	331	331
Depth		3-3.2	4.8-5	5.2-5.4	5.7-5.9	6.3-6.5
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Naphthalene in ASLP	µg/L	<0.1	48	<0.1	<0.1	<0.1
Acenaphthylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene in ASLP	µg/L	<0.1	<0.5	<0.1	<0.1	<0.1
Chrysene in ASLP	µg/L	<0.1	<0.5	<0.1	<0.1	<0.1
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	76	74	80	88	70

PAHs in Water Leach						
Our Reference		331896-A-24	331896-A-28	331896-A-50	331896-A-54	331896-A-55
Your Reference	UNITS	331	331	334	334	334
Depth		6.8-7	8.8-9	2.5-2.7	5.5-5.7	6-6.2
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Naphthalene in ASLP	µg/L	<0.1	<0.1	<0.1	1.7	<0.1
Acenaphthylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.5	<0.1
Chrysene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.5	<0.1
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	95	84	100	91	88

OCP in Water Leach						
Our Reference		331896-A-18	331896-A-20	331896-A-21	331896-A-26	331896-A-31
Your Reference	UNITS	331	331	331	331	332
Depth		3-3.2	4.8-5	5.2-5.4	7.8-8	1-1.2
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-BHC	µg/L	<0.2	0.3	<0.2	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
pp-DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Surrogate TCMX	%	72	65	77	83	79

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		331896-A-12	331896-A-14	331896-A-17	331896-A-18	331896-A-19
Your Reference	UNITS	331	331	331	331	331
Depth		0.1-0.3	1-1.2	2.5-2.7	3-3.2	3.9-4.1
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Arsenic	µg/L	2	2	3	4	<1
Cadmium	µg/L	0.1	0.2	0.4	0.5	0.8
Chromium	µg/L	9	42	3	29	3
Copper	µg/L	4	17	6	20	7
Lead	µg/L	30	200	26	240	9
Mercury	µg/L	0.5	1.5	3.5	1.6	0.4
Nickel	µg/L	<1	3	32	6	1
Zinc	µg/L	22	64	59	130	450

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		331896-A-21	331896-A-23	331896-A-31	331896-A-34	331896-A-36
Your Reference	UNITS	331	331	332	333	333
Depth		5.2-5.4	6.3-6.5	1-1.2	1-1.2	2-2.2
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Arsenic	µg/L	3	13	2	3	<1
Cadmium	µg/L	<0.1	<0.1	0.2	0.1	0.1
Chromium	µg/L	1	2	17	14	<1
Copper	µg/L	2	<1	10	6	<1
Lead	µg/L	3	4	36	76	31,000
Mercury	µg/L	0.09	<0.05	0.56	0.86	0.08
Nickel	µg/L	<1	<1	<1	1	1
Zinc	µg/L	170	17	24	23	9

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		331896-A-37	331896-A-39	331896-A-41	331896-A-44	331896-A-51
Your Reference	UNITS	333	333	333	333	334
Depth		2.4-2.6	4.5-4.7	5.5-5.7	7.3-7.5	3-3.2
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Arsenic	µg/L	4	4	5	2	4
Cadmium	µg/L	0.4	1.3	<0.1	<0.1	<0.1
Chromium	µg/L	33	35	2	<1	40
Copper	µg/L	12	4	<1	<1	7
Lead	µg/L	320	370	2	2	240
Mercury	µg/L	0.05	<0.05	<0.05	<0.05	0.06
Nickel	µg/L	5	4	<1	<1	7
Zinc	µg/L	42	250	3	1	45

Metals from Neutral Leaching Fluid ICPMS				
Our Reference		331896-A-54	331896-A-55	331896-A-104
Your Reference	UNITS	334	334	341
Depth		5.5-5.7	6-6.2	0.2-0.4
Date Sampled		29/08/23	29/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023
Arsenic	µg/L	11	3	<1
Cadmium	µg/L	<0.1	<0.1	0.2
Chromium	µg/L	4	8	89
Copper	µg/L	20	<1	5
Lead	µg/L	30	39	170
Mercury	µg/L	0.1	<0.05	0.82
Nickel	µg/L	1	<1	1
Zinc	µg/L	13	4	30

PFAS in ASLP Short						
Our Reference		331896-A-12	331896-A-14	331896-A-21	331896-A-23	331896-A-31
Your Reference	UNITS	331	331	331	331	332
Depth		0.1-0.3	1-1.2	5.2-5.4	6.3-6.5	1-1.2
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	15/09/2023	14/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	0.02	0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.03	0.10	<0.01	0.02	0.06
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	95	94	98	96	96
Surrogate $^{13}C_2$ PFOA	%	100	97	102	89	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	93	97	93	90	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	101	102	98	95	102
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	103	116	105	108
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	105	108	182	106	113
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	122	125	159	142	117
Total Positive PFHxS & PFOS	µg/L	0.03	0.12	0.01	0.02	0.06
Total Positive PFOS & PFOA	µg/L	0.03	0.1	<0.01	0.02	0.06
Total Positive PFAS	µg/L	0.03	0.12	0.01	0.02	0.06

PFAS in ASLP Short						
Our Reference		331896-A-44	331896-A-49	331896-A-55	331896-A-57	331896-A-94
Your Reference	UNITS	333	334	334	334	340
Depth		7.3-7.5	2-2.2	6-6.2	6.8-7	0.3-0.5
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Date analysed	-	14/09/2023	14/09/2023	15/09/2023	15/09/2023	15/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	0.15	<0.01	<0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
6:2 FTS	µg/L	0.03	<0.01	0.04	0.05	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ PFOS	%	96	96	99	97	93
Surrogate $^{13}C_2$ PFOA	%	101	101	85	93	84
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94	93	100	100	99
Extracted ISTD $^{13}C_4$ *PFOS*	%	100	99	96	96	98
Extracted ISTD $^{13}C_4$ *PFOA*	%	102	105	101	95	100
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	101	115	107	104	94
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	99	135	133	137	113
Total Positive PFHxS & PFOS	µg/L	<0.01	0.15	<0.01	<0.01	<0.01
Total Positive PFOS & PFOA	µg/L	<0.01	0.15	<0.01	<0.01	<0.01
Total Positive PFAS	µg/L	0.03	0.15	0.04	0.05	<0.01

PFAS in ASLP Short		
Our Reference		331896-A-104
Your Reference	UNITS	341
Depth		0.2-0.4
Date Sampled		28/08/23
Type of sample		Soil
Date prepared	-	14/09/2023
Date analysed	-	15/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.02
Perfluorooctanoic acid PFOA	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
Surrogate $^{13}C_8$ PFOS	%	101
Surrogate $^{13}C_2$ PFOA	%	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%	95
Extracted ISTD $^{13}C_4$ *PFOS*	%	94
Extracted ISTD $^{13}C_4$ *PFOA*	%	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	103
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	122
Total Positive PFHxS & PFOS	µg/L	0.02
Total Positive PFOS & PFOA	µg/L	0.02
Total Positive PFAS	µg/L	0.02

BTEX in Zero Headspace					
Our Reference		331896-A-20	331896-A-22	331896-A-24	331896-A-28
Your Reference	UNITS	331	331	331	331
Depth		4.8-5	5.7-5.9	6.8-7	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	6.1	6.4	6.1	6.3
pH of soil TCLP (after HCl)	pH units	1.7	1.7	1.7	1.7
Extraction fluid used		1	1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0	5.0
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	04/10/2023	04/10/2023	04/10/2023	04/10/2023
Benzene	µg/L	<1000	<10	<100	<100
Toluene	µg/L	75,000	87	28,000	35,000
Ethylbenzene	µg/L	36,000	180	24,000	19,000
m+p-xylene	µg/L	19,000	110	9,000	9,600
o-xylene	µg/L	6,700	39	2,800	4,300
Surrogate Dibromofluoromethane	%	103	105	99	97
Surrogate Toluene-d8	%	105	106	107	107
Surrogate 4-Bromofluorobenzene	%	100	100	100	99

BTEX in Zero Headspace ASLP						
Our Reference		331896-A-14	331896-A-17	331896-A-19	331896-A-20	331896-A-21
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	2.5-2.7	3.9-4.1	4.8-5	5.2-5.4
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.8	6.2	6.0	6.0	6.0
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	04/10/2023	04/10/2023	04/10/2023	04/10/2023	04/10/2023
Benzene	µg/L	<10	<10	<1000	<1000	<1000
Toluene	µg/L	73	<10	37,000	52,000	96,000
Ethylbenzene	µg/L	27	85	28,000	37,000	40,000
m+p-xylene	µg/L	330	240	15,000	18,000	21,000
o-xylene	µg/L	130	58	5,400	7,500	7,600
Surrogate Dibromofluoromethane	%	108	108	106	106	103
Surrogate Toluene-d8	%	106	108	106	106	105
Surrogate 4-Bromofluorobenzene	%	102	100	100	100	100

BTEX in Zero Headspace ASLP						
Our Reference		331896-A-22	331896-A-23	331896-A-24	331896-A-27	331896-A-28
Your Reference	UNITS	331	331	331	331	331
Depth		5.7-5.9	6.3-6.5	6.8-7	8.3-8.5	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.2	5.8	6.0	6.2	6.3
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	04/10/2023	04/10/2023	04/10/2023	04/10/2023	04/10/2023
Benzene	µg/L	<1000	<100	<100	<100	<1000
Toluene	µg/L	7,800	4,800	17,000	2,400	47,000
Ethylbenzene	µg/L	13,000	8,200	17,000	4,400	23,000
m+p-xylene	µg/L	8,600	3,600	6,800	2,100	13,000
o-xylene	µg/L	4,100	1,200	2,100	7,100	4,300
Surrogate Dibromofluoromethane	%	106	100	98	102	104
Surrogate Toluene-d8	%	105	107	107	107	105
Surrogate 4-Bromofluorobenzene	%	101	99	99	99	100

BTEX in Zero Headspace ASLP						
Our Reference		331896-A-50	331896-A-51	331896-A-54	331896-A-55	331896-A-80
Your Reference	UNITS	334	334	334	334	338
Depth		2.5-2.7	3-3.2	5.5-5.7	6-6.2	5.8-6
Date Sampled		29/08/23	29/08/2023	29/08/23	29/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.6	6.6	6.9	6.6	5.9
Date extracted	-	03/10/2023	05/10/2023	05/10/2023	05/10/2023	05/10/2023
Date analysed	-	04/10/2023	06/10/2023	06/10/2023	06/10/2023	06/10/2023
Benzene	µg/L	<10	<1	<1	<1	<1
Toluene	µg/L	140	1	4	<1	54
Ethylbenzene	µg/L	92	<1	6	<1	46
m+p-xylene	µg/L	61	75	5	<2	36
o-xylene	µg/L	68	23	3	<1	12
Surrogate Dibromofluoromethane	%	107	107	105	108	105
Surrogate Toluene-d8	%	104	113	107	101	111
Surrogate 4-Bromofluorobenzene	%	100	102	100	97	97

BTEX in Zero Headspace ASLP			
Our Reference		331896-A-81	331896-A-82
Your Reference	UNITS	338	338
Depth		6.8-7	7.8-8
Date Sampled		25/08/23	25/08/23
Type of sample		Soil	Soil
pH of final Leachate	pH units	6.8	5.7
Date extracted	-	05/10/2023	05/10/2023
Date analysed	-	06/10/2023	06/10/2023
Benzene	µg/L	<10	<1
Toluene	µg/L	77	2
Ethylbenzene	µg/L	77	<1
m+p-xylene	µg/L	62	23
o-xylene	µg/L	31	21
Surrogate Dibromofluoromethane	%	107	106
Surrogate Toluene-d8	%	107	113
Surrogate 4-Bromofluorobenzene	%	101	102

Misc Inorg - Soil						
Our Reference		331896-A-14	331896-A-18	331896-A-20	331896-A-22	331896-A-24
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	3-3.2	4.8-5	5.7-5.9	6.8-7
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH 1:5 soil:water	pH Units	8.4	8.2	6.6	6.2	6.6
Electrical Conductivity 1:5 soil:water	µS/cm	150	270	110	180	32
Chloride, Cl 1:5 soil:water	mg/kg	33	62	29	25	<10
Sulphate, SO4 1:5 soil:water	mg/kg	41	74	<10	36	10
Soluble Bicarb as $CaCO_3$ *	mg/kg	390	520	240	270	120
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50	<50	<50	<50	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	390	520	240	270	120

Misc Inorg - Soil		
Our Reference		331896-A-28
Your Reference	UNITS	331
Depth		8.8-9
Date Sampled		28/08/23
Type of sample		Soil
Date prepared	-	15/09/2023
Date analysed	-	15/09/2023
pH 1:5 soil:water	pH Units	6.9
Electrical Conductivity 1:5 soil:water	µS/cm	96
Chloride, Cl 1:5 soil:water	mg/kg	10
Sulphate, SO4 1:5 soil:water	mg/kg	23
Soluble Bicarb as $CaCO_3$ *	mg/kg	300
Soluble Carbonate as $CaCO_3$ *	mg/kg	<50
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<50
Soluble Alkalinity as $CaCO_3$ *	mg/kg	300

Acid Extractable Cations in Soil						
Our Reference		331896-A-14	331896-A-18	331896-A-20	331896-A-22	331896-A-24
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	3-3.2	4.8-5	5.7-5.9	6.8-7
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	5,600	8,600	3,300	8,500	560
Potassium	mg/kg	230	170	70	50	60
Magnesium	mg/kg	2,100	1,400	80	240	90
Sodium	mg/kg	250	510	60	40	10

Acid Extractable Cations in Soil				
Our Reference		331896-A-28	331896-A-130	331896-A-131
Your Reference	UNITS	331	331 - [TRIPLICATE]	331 - [TRIPLICATE]
Depth		8.8-9	1-1.2	8.8-9
Date Sampled		28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023
Calcium	mg/kg	1,100	6,400	1,400
Potassium	mg/kg	60	300	70
Magnesium	mg/kg	100	1,900	200
Sodium	mg/kg	30	360	330

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		331896-A-28	331896-A-81	331896-A-82	331896-A-127	331896-A-129
Your Reference	UNITS	331	338	338	331 - BTEX repeat	338 - BTEX repeat
Depth		8.8-9	6.8-7	7.8-8	8.8-9	7.8-8
Date Sampled		28/08/23	25/08/23	25/08/23	28/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
TRH C_6 - C_9	mg/kg	12,000	28	280	9,900	80
TRH C_6 - C_{10}	mg/kg	20,000	66	730	12,000	300
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	13,000	49	620	5,000	290
Benzene	mg/kg	<20	<0.2	<0.2	<20	<0.2
Toluene	mg/kg	2,900	<0.5	<0.5	2,900	<0.5
Ethylbenzene	mg/kg	2,200	2	12	2,400	<1
m+p-xylene	mg/kg	1,200	12	81	1,300	8
o-Xylene	mg/kg	400	3	21	420	3
Naphthalene	mg/kg	200	<1	2	<100	2
Total +ve Xylenes	mg/kg	1,600	15	100	1,700	11
Surrogate aaa-Trifluorotoluene	%	#	85	97	#	96

svTRH (C10-C40) in Soil		
Our Reference		331896-A-81
Your Reference	UNITS	338
Depth		6.8-7
Date Sampled		25/08/23
Type of sample		Soil
Date extracted	-	19/09/2023
Date analysed	-	19/09/2023
TRH C_{10} - C_{14}	mg/kg	1,100
TRH C_{15} - C_{28}	mg/kg	1,500
TRH C_{29} - C_{36}	mg/kg	290
Total +ve TRH (C10-C36)	mg/kg	2,900
TRH >C_{10} -C_{16}	mg/kg	840
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	840
TRH >C_{16} -C_{34}	mg/kg	1,600
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	2,400
Surrogate o-Terphenyl	%	#

sTPH in Soil (C10-C40)-Silica						
Our Reference		331896-A-14	331896-A-17	331896-A-19	331896-A-21	331896-A-22
Your Reference	UNITS	331	331	331	331	331
Depth		1-1.2	2.5-2.7	3.9-4.1	5.2-5.4	5.7-5.9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	710	660	2,900	5,800
TPH C_{15} - C_{28}	mg/kg	130	12,000	1,900	4,000	5,400
TPH C_{29} - C_{36}	mg/kg	<100	4,700	150	370	490
TPH >C_{10} -C_{16}	mg/kg	<50	1,100	310	1,700	3,100
TPH >C_{16} -C_{34}	mg/kg	170	16,000	2,000	4,200	5,700
TPH >C_{34} -C_{40}	mg/kg	<100	1,000	<100	180	200
Surrogate o-Terphenyl	%	88	#	85	79	105

sTPH in Soil (C10-C40)-Silica						
Our Reference		331896-A-26	331896-A-28	331896-A-29	331896-A-31	331896-A-32
Your Reference	UNITS	331	331	332	332	333
Depth		7.8-8	8.8-9	0.1-0.3	1-1.2	0.1-0.3
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TPH C_{10} - C_{14}	mg/kg	96	200	<50	100	<50
TPH C_{15} - C_{28}	mg/kg	<100	170	130	260	110
TPH C_{29} - C_{36}	mg/kg	<100	<100	240	110	190
TPH >C_{10} -C_{16}	mg/kg	58	110	<50	120	<50
TPH >C_{16} -C_{34}	mg/kg	<100	180	290	320	240
TPH >C_{34} -C_{40}	mg/kg	<100	<100	200	<100	150
Surrogate o-Terphenyl	%	67	84	95	110	98

sTPH in Soil (C10-C40)-Silica						
Our Reference		331896-A-34	331896-A-45	331896-A-51	331896-A-53	331896-A-54
Your Reference	UNITS	333	334	334	334	334
Depth		1-1.2	0.1-0.3	3-3.2	4.5-4.7	5.5-5.7
Date Sampled		29/08/23	29/08/23	29/08/2023	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	<50	300	57	<50
TPH C_{15} - C_{28}	mg/kg	120	190	740	500	120
TPH C_{29} - C_{36}	mg/kg	<100	330	170	200	<100
TPH >C_{10} -C_{16}	mg/kg	<50	<50	230	<50	<50
TPH >C_{16} -C_{34}	mg/kg	150	430	850	640	140
TPH >C_{34} -C_{40}	mg/kg	<100	220	<100	<100	<100
Surrogate o-Terphenyl	%	107	84	108	106	76

sTPH in Soil (C10-C40)-Silica		
Our Reference		331896-A-82
Your Reference	UNITS	338
Depth		7.8-8
Date Sampled		25/08/23
Type of sample		Soil
Date extracted	-	13/09/2023
Date analysed	-	18/09/2023
TPH C_{10} - C_{14}	mg/kg	440
TPH C_{15} - C_{28}	mg/kg	<100
TPH C_{29} - C_{36}	mg/kg	<100
TPH >C_{10} -C_{16}	mg/kg	220
TPH >C_{16} -C_{34}	mg/kg	<100
TPH >C_{34} -C_{40}	mg/kg	<100
Surrogate o-Terphenyl	%	74

Aromatic & Aliphatic TPH						
Our Reference		331896-A-17	331896-A-18	331896-A-19	331896-A-21	331896-A-22
Your Reference	UNITS	331	331	331	331	331
Depth		2.5-2.7	3-3.2	3.9-4.1	5.2-5.4	5.7-5.9
Date Sampled		28/08/23	28/08/23	28/08/23	28/08/23	28/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
>C10-C16 Aliphatic	mg/kg	700	270	320	1,100	1,500
>C16-C35 Aliphatic	mg/kg	12,300	430	190	230	240
>C35 Aliphatic	mg/kg	460	<100	<100	<100	<100
>C10-C16 Aromatic	mg/kg	430	170	120	510	450
>C16-C35 Aromatic	mg/kg	6,900	290	2,100	3,400	4,000
Surrogate 1-chlorooctadecane	%	#	98	100	94	76

Organochlorine Pesticides in soil						
Our Reference		331896-A-21	331896-A-27	331896-A-34	331896-A-37	331896-A-49
Your Reference	UNITS	331	331	333	333	334
Depth		5.2-5.4	8.3-8.5	1-1.2	2.4-2.6	2-2.2
Date Sampled		28/08/23	28/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	01/09/2023	19/09/2023	19/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	20/09/2023	20/09/2023	01/09/2023	01/09/2023
alpha-BHC	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	7.1	0.4	7.2	<0.1	0.2
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	78	5.7	24	<0.1	1.7
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	0.1	1.4	48	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	85	7.5	79	<0.1	2.0
Surrogate TCMX	%	104	92	89	86	109

Organochlorine Pesticides in soil		
Our Reference		331896-A-51
Your Reference	UNITS	334
Depth		3-3.2
Date Sampled		29/08/2023
Type of sample		Soil
Date extracted	-	01/09/2023
Date analysed	-	01/09/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	0.4
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	0.8
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	1.2
Surrogate TCMX	%	113

PCBs in Soil		
Our Reference		331896-A-110
Your Reference	UNITS	341
Depth		3.2-3.4
Date Sampled		28/08/23
Type of sample		Soil
Date extracted	-	01/09/2023
Date analysed	-	01/09/2023
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	102

Acid Extractable metals in soil						
Our Reference		331896-A-35	331896-A-36	331896-A-41	331896-A-44	331896-A-57
Your Reference	UNITS	333	333	333	333	334
Depth		1.5-1.7	2-2.2	5.5-5.7	7.3-7.5	6.8-7
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Arsenic	mg/kg	5	[NA]	<4	<4	<4
Cadmium	mg/kg	0.4	[NA]	<0.4	<0.4	<0.4
Chromium	mg/kg	78	[NA]	5	<1	11
Copper	mg/kg	44	[NA]	2	<1	<1
Lead	mg/kg	350	110,000	36	5	59
Mercury	mg/kg	33	[NA]	<0.1	<0.1	<0.1
Nickel	mg/kg	7	[NA]	<1	<1	<1
Zinc	mg/kg	180	[NA]	2	2	4

Acid Extractable metals in soil						
Our Reference		331896-A-58	331896-A-105	331896-A-106	331896-A-128	331896-A-132
Your Reference	UNITS	334	341	341	333 - lead repeat	333 - [TRIPLICATE]
Depth		7.3-7.5	0.7-0.9	1.2-1.4	2-2.2	2-2.2
Date Sampled		29/08/23	28/08/23	28/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Arsenic	mg/kg	<4	<4	<4	[NA]	[NA]
Cadmium	mg/kg	<0.4	<0.4	<0.4	[NA]	[NA]
Chromium	mg/kg	52	170	5	[NA]	[NA]
Copper	mg/kg	2	40	3	[NA]	[NA]
Lead	mg/kg	280	320	36	53,000	85,000
Mercury	mg/kg	0.3	2.1	<0.1	[NA]	[NA]
Nickel	mg/kg	<1	89	<1	[NA]	[NA]
Zinc	mg/kg	17	99	14	[NA]	[NA]

PFAS in Soils Short				
Our Reference		331896-A-14	331896-A-49	331896-A-57
Your Reference	UNITS	331	334	334
Depth		1-1.2	2-2.2	6.8-7
Date Sampled		28/08/23	29/08/23	29/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	18/09/2023	18/09/2023	18/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.8	0.6	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	4.7	2.9	<0.1
Perfluorooctanoic acid PFOA	µg/kg	0.2	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	0.5
8:2 FTS	µg/kg	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	75	83	90
Surrogate $^{13}C_2$ *PFOA*	%	95	96	94
Extracted ISTD $^{18}O_2$ *PFHxS*	%	76	70	77
Extracted ISTD $^{13}C_4$ *PFOS*	%	114	111	102
Extracted ISTD $^{13}C_4$ *PFOA*	%	107	105	100
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	141	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	156	105
Total Positive PFHxS & PFOS	µg/kg	5.5	3.6	<0.1
Total Positive PFOS & PFOA	µg/kg	4.9	2.9	<0.1
Total Positive PFAS	µg/kg	5.7	3.6	0.5

Moisture						
Our Reference		331896-A-35	331896-A-41	331896-A-57	331896-A-58	331896-A-81
Your Reference	UNITS	333	333	334	334	338
Depth		1.5-1.7	5.5-5.7	6.8-7	7.3-7.5	6.8-7
Date Sampled		29/08/23	29/08/23	29/08/23	29/08/23	25/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023	19/09/2023	19/09/2023	19/09/2023
Moisture	%	12	11	19	18	19

Moisture			
Our Reference		331896-A-105	331896-A-106
Your Reference	UNITS	341	341
Depth		0.7-0.9	1.2-1.4
Date Sampled		28/08/23	28/08/23
Type of sample		Soil	Soil
Date prepared	-	19/09/2023	19/09/2023
Date analysed	-	19/09/2023	19/09/2023
Moisture	%	9.9	4.4

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-021	Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. Fractionation with pentane through a silica gel column for aliphatics and DCM for aromatics.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.
Org-029A	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. TOPA analyses use a pre-spiked, labelled internal standard PFAS precursor to assess the oxidation efficiency. The efficiency of removal by oxidation is recorded in the report. Additionally, dilutions applied (if required) to ensure sufficient precursor oxidation are also recorded and are available on request. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			18/09/2023	[NT]	[NT]	[NT]	[NT]	18/09/2023	[NT]
Date analysed	-			19/09/2023	[NT]	[NT]	[NT]	[NT]	19/09/2023	[NT]
Naphthalene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	76	[NT]
Acenaphthylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	78	[NT]
Fluorene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	78	[NT]
Phenanthrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	82	[NT]
Anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	86	[NT]
Pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	74	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.0002	Org-022/025	<0.0002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	78	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	130	[NT]	[NT]	[NT]	[NT]	119	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331896-A-17
Date extracted	-			19/09/2023	14	19/09/2023	19/09/2023		19/09/2023	19/09/2023
Date analysed	-			19/09/2023	14	19/09/2023	19/09/2023		19/09/2023	19/09/2023
Chromium	mg/L	0.01	Metals-020	<0.01	14	0.03	0.02	40	97	88
Lead	mg/L	0.03	Metals-020	<0.03	14	4.5	4.1	9	95	86
Mercury	mg/L	0.0005	Metals-021	<0.0005	14	<0.0005	<0.0005	0	114	80
Nickel	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	95	85

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	37	19/09/2023	19/09/2023		[NT]	[NT]
Date analysed	-			[NT]	37	19/09/2023	19/09/2023		[NT]	[NT]
Lead	mg/L	0.03	Metals-020	[NT]	37	3.0	3.0	0	[NT]	[NT]

QUALITY CONTROL: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331896-A-31
Date prepared	-			18/09/2023	94	18/09/2023	18/09/2023		18/09/2023	18/09/2023
Date analysed	-			19/09/2023	94	19/09/2023	19/09/2023		19/09/2023	19/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	94	<0.01	<0.01	0	103	105
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	94	<0.01	<0.01	0	95	99
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	94	<0.01	<0.01	0	106	104
6:2 FTS	µg/L	0.01	Org-029	<0.01	94	<0.01	<0.01	0	101	107
8:2 FTS	µg/L	0.02	Org-029	<0.02	94	<0.02	<0.02	0	110	110
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	98	94	98	96	2	92	95
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	106	94	101	105	4	101	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	102	94	101	103	2	100	99
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	110	94	111	113	2	106	104
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	112	94	114	110	4	107	109
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	109	94	113	113	0	99	100
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	129	94	136	135	1	110	118

QUALITY CONTROL: PAHs in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/09/2023	[NT]	[NT]	[NT]	[NT]	19/09/2023	[NT]
Date analysed	-			20/09/2023	[NT]	[NT]	[NT]	[NT]	20/09/2023	[NT]
Naphthalene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Acenaphthylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Fluorene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Phenanthrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(a)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	81	[NT]
Benzo(bjk)fluoranthene in ASLP	µg/L	0.2	Org-022/025 ASLP	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025 ASLP	140	[NT]	[NT]	[NT]	[NT]	128	[NT]

QUALITY CONTROL: OCP in Water Leach					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/09/2023	[NT]	[NT]	[NT]	[NT]	19/09/2023	[NT]
Date analysed	-			20/09/2023	[NT]	[NT]	[NT]	[NT]	20/09/2023	[NT]
HCB	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	87	[NT]
gamma-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	86	[NT]
Heptachlor	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	66	[NT]
delta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	88	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
gamma-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	97	[NT]
Dieldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	82	[NT]
pp-DDD	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	85	[NT]
Endosulfan II	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	77	[NT]
Methoxychlor	µg/L	0.2	SEO-005	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	125	[NT]	[NT]	[NT]	[NT]	117	[NT]

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331896-A-14
Date extracted	-			19/09/2023	19	19/09/2023	19/09/2023		19/09/2023	19/09/2023
Date analysed	-			19/09/2023	19	19/09/2023	19/09/2023		19/09/2023	19/09/2023
Arsenic	µg/L	1	Metals-022	<1	19	<1	<1	0	106	96
Cadmium	µg/L	0.1	Metals-022	<0.1	19	0.8	0.8	0	110	100
Chromium	µg/L	1	Metals-022	<1	19	3	2	40	96	81
Copper	µg/L	1	Metals-022	<1	19	7	8	13	99	91
Lead	µg/L	1	Metals-022	<1	19	9	7	25	94	#
Mercury	µg/L	0.05	Metals-021	<0.05	19	0.4	0.3	29	105	91
Nickel	µg/L	1	Metals-022	<1	19	1	1	0	105	100
Zinc	µg/L	1	Metals-022	<1	19	450	440	2	119	86

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	36	19/09/2023	19/09/2023		[NT]	[NT]
Date analysed	-			[NT]	36	19/09/2023	19/09/2023		[NT]	[NT]
Arsenic	µg/L	1	Metals-022	[NT]	36	<1	<1	0	[NT]	[NT]
Cadmium	µg/L	0.1	Metals-022	[NT]	36	0.1	0.1	0	[NT]	[NT]
Chromium	µg/L	1	Metals-022	[NT]	36	<1	<1	0	[NT]	[NT]
Copper	µg/L	1	Metals-022	[NT]	36	<1	<1	0	[NT]	[NT]
Lead	µg/L	1	Metals-022	[NT]	36	31000	31000	0	[NT]	[NT]
Mercury	µg/L	0.05	Metals-021	[NT]	36	0.08	0.08	0	[NT]	[NT]
Nickel	µg/L	1	Metals-022	[NT]	36	1	1	0	[NT]	[NT]
Zinc	µg/L	1	Metals-022	[NT]	36	9	9	0	[NT]	[NT]

QUALITY CONTROL: PFAS in ASLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	331896-A-12
Date prepared	-			14/09/2023	14	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Date analysed	-			14/09/2023	14	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029A	<0.01	14	0.02	0.02	0	119	111
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029A	<0.01	14	0.10	0.1	0	102	100
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029A	<0.01	14	<0.01	<0.01	0	123	112
6:2 FTS	µg/L	0.01	Org-029A	<0.01	14	<0.01	<0.01	0	110	98
8:2 FTS	µg/L	0.02	Org-029A	<0.02	14	<0.02	<0.02	0	124	110
Surrogate $^{13}C_8$ PFOS	%		Org-029A	94	14	94	96	2	95	99
Surrogate $^{13}C_2$ PFOA	%		Org-029A	99	14	97	96	1	102	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029A	93	14	97	94	3	91	94
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029A	98	14	102	100	2	100	99
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029A	100	14	103	105	2	95	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029A	109	14	108	114	5	101	104
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029A	120	14	125	136	8	112	122

QUALITY CONTROL: PFAS in ASLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331896-A-94
Date prepared	-			[NT]	57	14/09/2023	14/09/2023		[NT]	14/09/2023
Date analysed	-			[NT]	57	15/09/2023	15/09/2023		[NT]	14/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029A	[NT]	57	<0.01	<0.01	0	[NT]	104
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029A	[NT]	57	<0.01	<0.01	0	[NT]	104
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029A	[NT]	57	<0.01	<0.01	0	[NT]	114
6:2 FTS	µg/L	0.01	Org-029A	[NT]	57	0.05	0.05	0	[NT]	122
8:2 FTS	µg/L	0.02	Org-029A	[NT]	57	<0.02	<0.02	0	[NT]	107
Surrogate $^{13}C_8$ PFOS	%		Org-029A	[NT]	57	97	94	3	[NT]	98
Surrogate $^{13}C_2$ PFOA	%		Org-029A	[NT]	57	93	84	10	[NT]	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029A	[NT]	57	100	100	0	[NT]	99
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029A	[NT]	57	96	97	1	[NT]	95
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029A	[NT]	57	95	99	4	[NT]	93

QUALITY CONTROL: PFAS in ASLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	331896-A-94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029A	[NT]	57	104	96	8	[NT]	92
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029A	[NT]	57	137	121	12	[NT]	113

QUALITY CONTROL: BTEX in Zero Headspace						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			05/10/2023	[NT]	[NT]	[NT]	[NT]	05/10/2023	[NT]
Date analysed	-			06/10/2023	[NT]	[NT]	[NT]	[NT]	06/10/2023	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	97	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate Dibromofluoromethane	%		Org-023	106	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	106	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: BTEX in Zero Headspace ASLP						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			05/10/2023	[NT]	[NT]	[NT]	[NT]	05/10/2023	[NT]
Date analysed	-			06/10/2023	[NT]	[NT]	[NT]	[NT]	06/10/2023	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	97	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate Dibromofluoromethane	%		Org-023	106	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	104	[NT]	[NT]	[NT]	[NT]	106	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date prepared	-			15/09/2023	14	15/09/2023	15/09/2023		15/09/2023	[NT]
Date analysed	-			15/09/2023	14	15/09/2023	15/09/2023		15/09/2023	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	14	8.4	8.5	1	101	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	14	150	140	7	107	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	14	33	20	49	100	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	14	41	29	34	95	[NT]
Soluble Bicarb as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	14	390	400	3	[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	14	<50	<50	0	[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	14	<50	<50	0	[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	14	390	400	3	107	[NT]

QUALITY CONTROL: Acid Extractable Cations in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	331896-A-22
Date prepared	-			13/09/2023	14	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			14/09/2023	14	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Calcium	mg/kg	10	Metals-020	<10	14	5600	8400	40	116	#
Potassium	mg/kg	10	Metals-020	<10	14	230	420	58	110	101
Magnesium	mg/kg	10	Metals-020	<10	14	2100	4900	80	116	115
Sodium	mg/kg	10	Metals-020	<10	14	250	550	75	84	92

QUALITY CONTROL: Acid Extractable Cations in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	28	13/09/2023	13/09/2023		[NT]	[NT]
Date analysed	-			[NT]	28	14/09/2023	14/09/2023		[NT]	[NT]
Calcium	mg/kg	10	Metals-020	[NT]	28	1100	2500	78	[NT]	[NT]
Potassium	mg/kg	10	Metals-020	[NT]	28	60	80	29	[NT]	[NT]
Magnesium	mg/kg	10	Metals-020	[NT]	28	100	560	139	[NT]	[NT]
Sodium	mg/kg	10	Metals-020	[NT]	28	30	210	150	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			19/09/2023	[NT]	[NT]	[NT]	[NT]	19/09/2023	[NT]
Date analysed	-			20/09/2023	[NT]	[NT]	[NT]	[NT]	20/09/2023	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	103	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	105	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	102	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			19/09/2023	81	19/09/2023	19/09/2023		19/09/2023	[NT]
Date analysed	-			19/09/2023	81	19/09/2023	19/09/2023		19/09/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	81	1100	1300	17	124	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	81	1500	1900	24	105	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	81	290	380	27	99	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	81	840	960	13	124	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	81	1600	2100	27	105	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	81	<100	110	10	99	[NT]
Surrogate o-Terphenyl	%		Org-020	105	81	#	#		95	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			13/09/2023	[NT]	[NT]	[NT]	[NT]	13/09/2023	[NT]
Date analysed	-			18/09/2023	[NT]	[NT]	[NT]	[NT]	18/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	80	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	80	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	90	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: Aromatic & Aliphatic TPH						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			13/09/2023	22	13/09/2023	25/09/2023		13/09/2023	[NT]
Date analysed	-			19/09/2023	22	19/09/2023	25/09/2023		19/09/2023	[NT]
>C10-C16 Aliphatic	mg/kg	50	Org-020	<50	22	1500	1600	6	73	[NT]
>C16-C35 Aliphatic	mg/kg	100	Org-020	<100	22	240	280	15	89	[NT]
>C35 Aliphatic	mg/kg	100	Org-020	<100	22	<100	<100	0	114	[NT]
>C10-C16 Aromatic	mg/kg	50	Org-020	<50	22	450	500	11	119	[NT]
>C16-C35 Aromatic	mg/kg	50	Org-020	<50	22	4000	4600	14	127	[NT]
Surrogate 1-chlorooctadecane	%		Org-020	70	22	76	87	13	91	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	125	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	132	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date extracted	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/09/2023	36	19/09/2023	19/09/2023		19/09/2023	[NT]
Date analysed	-			19/09/2023	36	19/09/2023	19/09/2023		19/09/2023	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	94	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	89	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Lead	mg/kg	1	Metals-020	<1	36	110000	60000	59	111	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date prepared	-			18/09/2023	[NT]	[NT]	[NT]	[NT]	18/09/2023	[NT]
Date analysed	-			18/09/2023	[NT]	[NT]	[NT]	[NT]	18/09/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	91	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	90	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	110	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	101	[NT]	[NT]	[NT]	[NT]	103	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Acid Extractable Cations in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 331896-A-14 for Ca, K, Mg and Na. Therefore a triplicate result has been issued as laboratory sample number 331896-A-130.
- The laboratory RPD acceptance criteria has been exceeded for 331896-A-28 for Ca, Mg and Na. Therefore a triplicate result has been issued as laboratory sample number 331896-A-131.
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Samples were out of the recommended holding time for this analysis pH/EC.

Metals-ASLP Neutral (ICP-MS):
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 331896-A-36 for Pb. Therefore a triplicate result has been issued as laboratory sample number 331896-A-132.

vTRH & BTEXN in Soil NEPM - The PQL for samples 331896-a-28,127 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.
vTRH & BTEXN in Soil NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 331896-a-28,127 have caused interference.
TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in sample/s 331896-A-81 have caused interference.

Aromatic & Aliphatic TPH - The RPD for duplicate results is accepted due to the non homogenous nature of sample 331896-a-22,22d.

BTEX_ZHE:The PQL for sample/s 331896-A-20,22,24,28 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.
BTEX_ZHE_ASLP:The PQL for sample/s 331896-A-14,17,19,20,21,22,23,24,27,28,50,81 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	331896-A
Date Sample Received	30/08/2023
Date Instructions Received	11/09/2023
Date Results Expected to be Reported	19/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	2
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Holding time exceedance: TRH/BTEX/PAH/OCP/pH/EC

Please contact the laboratory within 24 hours if you wish to cancel the aforementioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	TCLP Preparation - Acid	PAHs in TCLP (USEPA 1311)	Chromium	Lead	Mercury	Nickel	PFAS in TCLP Short	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	PFAS in ASLP Short	BTEX in Zero Headspace	BTEX in Zero Headspace ASLP	Misc Inorg - Soil	Acid ExtractableCations in Soil	sTPH in Soil (C10-C40)-Silica	Aromatic & Aliphatic TPH	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	PFAS in Soils Short	On Hold
307-0.2-0.4																									✓
307-0.5-0.7																									✓
307-1-1.2																									✓
307-1.5-1.7																									✓
307-1.9-2.1																									✓
307-2.8-3																									✓
307-3.8-4																									✓
307-4.8-5																									✓
307-5.8-6																									✓
307-6.8-7																									✓
307-7.8-8																									✓
331-0.1-0.3	✓						✓	✓			✓	✓													
331-0.5-0.7																									✓
331-1-1.2	✓		✓	✓	✓			✓			✓	✓		✓	✓	✓	✓							✓	
331-1.5-1.7																									✓
331-2-2.2																									✓
331-2.5-2.7	✓			✓	✓	✓		✓			✓			✓			✓	✓								
331-3-3.2	✓		✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓		✓								
331-3.9-4.1	✓			✓				✓			✓			✓			✓	✓								
331-4.8-5								✓	✓	✓			✓	✓	✓	✓										

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331-5.2-5.4	✓						✓	✓	✓	✓	✓	✓		✓			✓	✓			✓				
331-5.7-5.9								✓	✓				✓	✓	✓	✓	✓	✓							
331-6.3-6.5								✓	✓		✓	✓		✓											
331-6.8-7								✓	✓				✓	✓	✓	✓									
331-7.3-7.5																									✓
331-7.8-8								✓		✓							✓								
331-8.3-8.5														✓							✓				
331-8.8-9								✓	✓				✓	✓	✓	✓	✓		✓						
332-0.1-0.3	✓	✓															✓								
332-0.4-0.6																									✓
332-1-1.2	✓		✓	✓	✓		✓	✓		✓	✓	✓					✓								
333-0.1-0.3	✓	✓															✓								
333-0.5-0.7																									✓
333-1-1.2	✓		✓	✓	✓			✓			✓						✓				✓				
333-1.5-1.7																							✓		
333-2-2.2	✓			✓				✓			✓												✓		
333-2.4-2.6	✓			✓				✓			✓										✓				
333-3-3.2																									✓
333-4.5-4.7	✓		✓	✓				✓			✓														
333-5-5.2																									✓

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333-5.5-5.7								✓			✓												✓		
333-5.8-6																									✓
333-6.3-6.5																									✓
333-7.3-7.5	✓						✓	✓			✓	✓											✓		
334-0.1-0.3	✓	✓															✓								
334-0.5-0.7																									✓
334-1-1.2																									✓
334-1.5-1.7																									✓
334-2-2.2								✓				✓									✓			✓	
334-2.5-2.7								✓	✓					✓											
334-3-3.2	✓		✓	✓				✓			✓			✓			✓				✓				
334-3.5-3.7																									✓
334-4.5-4.7																	✓								
334-5.5-5.7	✓			✓				✓	✓		✓			✓			✓								
334-6-6.2	✓			✓			✓	✓	✓		✓	✓		✓											
334-6.3-6.5																									✓
334-6.8-7								✓				✓											✓	✓	
334-7.3-7.5																							✓		
334-7.8-8																									✓
337-0.2-0.4																									✓

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337-0.5-0.7																									✓
337-1-1.2																									✓
337-1.5-1.7																									✓
337-2-2.2																									✓
337-2.4-2.6																									✓
337-2.8-3																									✓
337-3.8-4																									✓
337-4.8-5																									✓
337-5.8-6																									✓
337-6.8-7																									✓
337-7.8-8																									✓
338-0.2-0.4																									✓
338-0.5-0.7																									✓
338-1-1.2																									✓
338-1.5-1.7																									✓
338-2.1-2.3																									✓
338-2.8-3																									✓
338-3.8-4																									✓
338-4.8-5																									✓
338-5.8-6														✓											

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338-6.8-7														✓					✓	✓					
338-7.8-8														✓			✓		✓						
339-0.2-0.4																									✓
339-0.5-0.7																									✓
339-1-1.2																									✓
339-1.6-1.8																									✓
339-2.3-2.5																									✓
339-2.8-3																									✓
339-3.8-4																									✓
339-4.8-5																									✓
339-5.8-6																									✓
339-6.8-7																									✓
339-7.8-8																									✓
340-0.3-0.5	✓						✓	✓				✓													
340-0.8-1																									✓
340-1.1-1.3																									✓
340-1.6-1.8																									✓
340-2.3-2.5																									✓
340-2.8-3																									✓
340-3.2-3.4																									✓

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340-3.6-3.8																								✓
340-4.6-4.8																								✓
340-5.6-5.8																								✓
341-0.2-0.4	✓		✓	✓	✓	✓	✓	✓			✓	✓													
341-0.7-0.9																							✓		
341-1.2-1.4																							✓		
341-1.7-1.9																									✓
341-2.3-2.5																									✓
341-2.8-3																									✓
341-3.2-3.4																						✓			
341-3.8-4																									✓
341-4.8-5																									✓
341-5.8-6																									✓
BD2/20230825																									✓
BD4/20230825																									✓
BD2/20230828																									✓
Trip Spike/20230825																									✓
Trip Spike/20230829																									✓
Trip Blank/20230825																									✓
Trip Blank/20230829																									✓

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Rinsate 1/20230829																									✓
307 - [TRIPLICATE]-0.2-0.4																									✓
334 - [TRIPLICATE]-0.1-0.3																									✓
339 - [TRIPLICATE]-0.2-0.4																									✓
331 - [TRIPLICATE]-8.8-9																									✓
331 - [TRIPLICATE]-3-3.2																									✓
331 - BTEX repeat-8.8-9																			✓						
333 - lead repeat-2-2.2																							✓		
338 - BTEX repeat-7.8-8																			✓						

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 332467

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	123 Soil, 1 Material
Date samples received	06/09/2023
Date completed instructions received	12/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	18/09/2023
Date of Issue	19/09/2023

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Lucy Zhu, Asbestos Supervisor
Nick Sarlamis, Assistant Operation Manager
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil			
Our Reference		332467-28	332467-30
Your Reference	UNITS	203	203
Depth		4-4.45	5.5-5.95
Date Sampled		5/09/23	5/09/23
Type of sample		Soil	Soil
Date Extracted	-	12/09/2023	12/09/2023
Date Analysed	-	18/09/2023	18/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1
Chloromethane	mg/kg	<1	<1
Vinyl Chloride	mg/kg	<1	<1
Bromomethane	mg/kg	<1	<1
Chloroethane	mg/kg	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1
1,1-dichloroethane	mg/kg	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1
bromochloromethane	mg/kg	<1	<1
chloroform	mg/kg	<1	<1
2,2-dichloropropane	mg/kg	<1	<1
1,2-dichloroethane	mg/kg	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1
1,1-dichloropropene	mg/kg	<1	<1
Cyclohexane	mg/kg	<1	<1
carbon tetrachloride	mg/kg	<1	<1
Benzene	mg/kg	<0.2	<0.2
dibromomethane	mg/kg	<1	<1
1,2-dichloropropane	mg/kg	<1	<1
trichloroethene	mg/kg	<1	<1
bromodichloromethane	mg/kg	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1
Toluene	mg/kg	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1
dibromochloromethane	mg/kg	<1	<1
1,2-dibromoethane	mg/kg	<1	<1
tetrachloroethene	mg/kg	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1
chlorobenzene	mg/kg	<1	<1

VOCs in soil			
Our Reference		332467-28	332467-30
Your Reference	UNITS	203	203
Depth		4-4.45	5.5-5.95
Date Sampled		5/09/23	5/09/23
Type of sample		Soil	Soil
Ethylbenzene	mg/kg	<1	<1
bromoform	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
styrene	mg/kg	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1
o-Xylene	mg/kg	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1
isopropylbenzene	mg/kg	<1	<1
bromobenzene	mg/kg	<1	<1
n-propyl benzene	mg/kg	<1	<1
2-chlorotoluene	mg/kg	<1	<1
4-chlorotoluene	mg/kg	<1	<1
1,3,5-trimethyl benzene	mg/kg	<1	<1
tert-butyl benzene	mg/kg	<1	<1
1,2,4-trimethyl benzene	mg/kg	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1
sec-butyl benzene	mg/kg	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1
4-isopropyl toluene	mg/kg	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1
n-butyl benzene	mg/kg	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1
hexachlorobutadiene	mg/kg	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1
Surrogate Dibromofluoromethane	%	98	99
Surrogate aaa-Trifluorotoluene	%	96	90
Surrogate Toluene-d_8	%	99	99
Surrogate 4-Bromofluorobenzene	%	97	97

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-1	332467-2	332467-3	332467-5	332467-9
Your Reference	UNITS	202	202	202	202	202
Depth		0.15-0.25	0.5-0.7	0.8-1	1.5-1.7	5.5-5.95
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	78	90	82	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-20	332467-22	332467-23	332467-25	332467-26
Your Reference	UNITS	202	203	203	203	203
Depth		18-18.45	0.25-0.35	0.6-0.8	1.5-1.7	2-2.2
Date Sampled		1/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	68	93	86	92	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-28	332467-29	332467-30	332467-32	332467-38
Your Reference	UNITS	203	203	203	203	203
Depth		4-4.45	5-5.2	5.5-5.95	8-8.35	14-14.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	96	84	90	80	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-41	332467-44	332467-46	332467-47	332467-50
Your Reference	UNITS	203	204	204	204	204
Depth		17-17.45	0.5-0.7	1.5-1.7	2-2.2	4.5-4.7
Date Sampled		5/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	67	92	91	97	101

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-51	332467-54	332467-63	332467-77	332467-78
Your Reference	UNITS	204	204	204	207	207
Depth		5-5.2	8-8.38	17-17.45	14-14.45	15-15.45
Date Sampled		4/09/23	4/09/23	4/09/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	98	78	94	79

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-84	332467-87	332467-89	332467-92	332467-94
Your Reference	UNITS	208	208	208	208	208
Depth		0.2-0.4	1-1.45	2.3-2.5	5.5-5.95	7.5-7.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	101	106	102	98

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-95	332467-99	332467-101	332467-104	332467-105
Your Reference	UNITS	208	208	208	BD1/20230830	BD1/20230901
Depth		8.5-8.95	13.5-13.95	15.5-15.95	-	-
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	92	76	103	94

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-106	332467-107	332467-108	332467-109	332467-110
Your Reference	UNITS	BD2/20230901	BD3/20230901	BD1/20230904	BD2/20230904	BD3/20230904
Depth		-	-	-	-	-
Date Sampled		1/09/23	1/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	95	100	92	90	93

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		332467-111	332467-112	332467-116	332467-117	332467-118
Your Reference	UNITS	BD4/20230904	BD5/20230904	BD4/20230905	Trip Spike/20230830	Trip Blank/20230830
Depth		-	-	-	-	-
Date Sampled		4/09/23	4/09/23	5/09/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	[NA]	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	[NA]	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	[NA]	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	98%	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	98%	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	97%	<1
m+p-xylene	mg/kg	<2	<2	<2	97%	<2
o-Xylene	mg/kg	<1	<1	<1	98%	<1
Naphthalene	mg/kg	<1	<1	<1	[NA]	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	89	71	91	96	100

sTPH in Soil (C10-C40)-Silica					
Our Reference		332467-20	332467-41	332467-63	332467-78
Your Reference	UNITS	202	203	204	207
Depth		18-18.45	17-17.45	17-17.45	15-15.45
Date Sampled		1/09/23	5/09/23	4/09/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	55	<150	<100
TPH C_{15} - C_{28}	mg/kg	130	210	<300	<200
TPH C_{29} - C_{36}	mg/kg	130	340	450	280
TPH >C_{10} -C_{16}	mg/kg	<50	72	<150	<100
TPH >C_{16} -C_{34}	mg/kg	230	480	590	360
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<300	<100
Surrogate o-Terphenyl	%	114	85	85	113

svTRH (C10-C40) in Soil						
Our Reference		332467-1	332467-2	332467-3	332467-5	332467-9
Your Reference	UNITS	202	202	202	202	202
Depth		0.15-0.25	0.5-0.7	0.8-1	1.5-1.7	5.5-5.95
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	170	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	570	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	740	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	520	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	700	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	1,200	<50	<50	<50	<50
Surrogate o-Terphenyl	%	97	96	95	93	92

svTRH (C10-C40) in Soil						
Our Reference		332467-20	332467-22	332467-23	332467-25	332467-26
Your Reference	UNITS	202	203	203	203	203
Depth		18-18.45	0.25-0.35	0.6-0.8	1.5-1.7	2-2.2
Date Sampled		1/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	270	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	270	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	280	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	380	<50	<50	<50	<50
Surrogate o-Terphenyl	%	105	96	95	93	94

svTRH (C10-C40) in Soil						
Our Reference		332467-28	332467-29	332467-30	332467-32	332467-38
Your Reference	UNITS	203	203	203	203	203
Depth		4-4.45	5-5.2	5.5-5.95	8-8.35	14-14.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	94	90	91	90	93

svTRH (C10-C40) in Soil						
Our Reference		332467-41	332467-44	332467-46	332467-47	332467-50
Your Reference	UNITS	203	204	204	204	204
Depth		17-17.45	0.5-0.7	1.5-1.7	2-2.2	4.5-4.7
Date Sampled		5/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	120	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	530	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	660	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	530	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	190	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	720	<50	<50	<50	<50
Surrogate o-Terphenyl	%	109	92	96	94	90

svTRH (C10-C40) in Soil						
Our Reference		332467-51	332467-54	332467-63	332467-77	332467-78
Your Reference	UNITS	204	204	204	207	207
Depth		5-5.2	8-8.38	17-17.45	14-14.45	15-15.45
Date Sampled		4/09/23	4/09/23	4/09/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	13/09/2023	13/09/2023	13/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<150	<50	<100
TRH C_{15} - C_{28}	mg/kg	<100	<100	<300	<100	<200
TRH C_{29} - C_{36}	mg/kg	<100	<100	940	<100	680
Total +ve TRH (C10-C36)	mg/kg	<50	<50	940	<50	680
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<150	<50	<100
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<150	<50	<100
TRH >C_{16} -C_{34}	mg/kg	<100	<100	960	<100	630
TRH >C_{34} -C_{40}	mg/kg	<100	<100	490	<100	280
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	1,400	<50	900
Surrogate o-Terphenyl	%	92	89	109	90	99

svTRH (C10-C40) in Soil						
Our Reference		332467-84	332467-87	332467-89	332467-92	332467-94
Your Reference	UNITS	208	208	208	208	208
Depth		0.2-0.4	1-1.45	2.3-2.5	5.5-5.95	7.5-7.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	13/09/2023	13/09/2023	13/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	120	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	140	180	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	140	300	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	190	250	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	110	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	300	250	<50	<50	<50
Surrogate o-Terphenyl	%	90	97	91	87	86

svTRH (C10-C40) in Soil						
Our Reference		332467-95	332467-99	332467-101	332467-104	332467-105
Your Reference	UNITS	208	208	208	BD1/20230830	BD1/20230901
Depth		8.5-8.95	13.5-13.95	15.5-15.95	-	-
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<150	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<300	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<300	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<150	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<150	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<150	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<300	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<300	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<150	<50	<50
Surrogate o-Terphenyl	%	88	87	104	91	90

svTRH (C10-C40) in Soil						
Our Reference		332467-106	332467-107	332467-108	332467-109	332467-110
Your Reference	UNITS	BD2/20230901	BD3/20230901	BD1/20230904	BD2/20230904	BD3/20230904
Depth		-	-	-	-	-
Date Sampled		1/09/23	1/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	90	86	90	89	86

svTRH (C10-C40) in Soil				
Our Reference		332467-111	332467-112	332467-116
Your Reference	UNITS	BD4/20230904	BD5/20230904	BD4/20230905
Depth		-	-	-
Date Sampled		4/09/23	4/09/23	5/09/23
Type of sample		Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<150	<50
TRH C_{15} - C_{28}	mg/kg	<100	<300	<100
TRH C_{29} - C_{36}	mg/kg	<100	360	<100
Total +ve TRH (C10-C36)	mg/kg	<50	360	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<150	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<150	<50
TRH >C_{16} -C_{34}	mg/kg	<100	360	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<300	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	360	<50
Surrogate o-Terphenyl	%	85	108	87

PAHs in Soil						
Our Reference		332467-1	332467-3	332467-9	332467-22	332467-23
Your Reference	UNITS	202	202	202	203	203
Depth		0.15-0.25	0.8-1	5.5-5.95	0.25-0.35	0.6-0.8
Date Sampled		1/09/23	1/09/23	1/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	130	133	121	129	129

PAHs in Soil						
Our Reference		332467-28	332467-30	332467-32	332467-38	332467-44
Your Reference	UNITS	203	203	203	203	204
Depth		4-4.45	5.5-5.95	8-8.35	14-14.45	0.5-0.7
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	18/09/2023	14/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	124	123	128	105	131

PAHs in Soil						
Our Reference		332467-46	332467-51	332467-54	332467-63	332467-78
Your Reference	UNITS	204	204	204	204	207
Depth		1.5-1.7	5-5.2	8-8.38	17-17.45	15-15.45
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	18/09/2023	18/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.2
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.6	<0.4
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.15	<0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.3	<0.2
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	0.4	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<1.5	<1
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<1.5	<1
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<1.5	<1
Surrogate p-Terphenyl-d14	%	128	122	126	109	99

PAHs in Soil						
Our Reference		332467-84	332467-87	332467-92	332467-94	332467-99
Your Reference	UNITS	208	208	208	208	208
Depth		0.2-0.4	1-1.45	5.5-5.95	7.5-7.95	13.5-13.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Naphthalene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	0.2	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	120	123	121	120

PAHs in Soil					
Our Reference		332467-106	332467-108	332467-111	332467-112
Your Reference	UNITS	BD2/20230901	BD1/20230904	BD4/20230904	BD5/20230904
Depth		-	-	-	-
Date Sampled		1/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.3
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.3
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.3
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.3
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.3
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.3
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.3
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.3
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.6
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.3
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.3
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.3
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.15
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<1.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<1.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<1.5
Surrogate p-Terphenyl-d14	%	127	119	115	139

Organochlorine Pesticides in soil					
Our Reference		332467-1	332467-22	332467-44	332467-84
Your Reference	UNITS	202	203	204	208
Depth		0.15-0.25	0.25-0.35	0.5-0.7	0.2-0.4
Date Sampled		1/09/23	5/09/23	4/09/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	120	124	124	113

PCBs in Soil					
Our Reference		332467-1	332467-22	332467-44	332467-84
Your Reference	UNITS	202	203	204	208
Depth		0.15-0.25	0.25-0.35	0.5-0.7	0.2-0.4
Date Sampled		1/09/23	5/09/23	4/09/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	120	124	124	113

Acid Extractable metals in soil						
Our Reference		332467-1	332467-3	332467-9	332467-22	332467-23
Your Reference	UNITS	202	202	202	203	203
Depth		0.15-0.25	0.8-1	5.5-5.95	0.25-0.35	0.6-0.8
Date Sampled		1/09/23	1/09/23	1/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	<1	2	12	2
Copper	mg/kg	75	<1	<1	16	<1
Lead	mg/kg	32	2	<1	63	1
Mercury	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	52	<1	1	6	<1
Zinc	mg/kg	52	<1	2	29	2

Acid Extractable metals in soil						
Our Reference		332467-28	332467-30	332467-32	332467-38	332467-44
Your Reference	UNITS	203	203	203	203	204
Depth		4-4.45	5.5-5.95	8-8.35	14-14.45	0.5-0.7
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Arsenic	mg/kg	<4	<4	<4	56	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	2	<1	8	2
Copper	mg/kg	3	<1	<1	2	2
Lead	mg/kg	<1	<1	<1	<1	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	<1	<1	1	<1
Zinc	mg/kg	3	2	<1	1	12

Acid Extractable metals in soil						
Our Reference		332467-46	332467-51	332467-54	332467-63	332467-78
Your Reference	UNITS	204	204	204	204	207
Depth		1.5-1.7	5-5.2	8-8.38	17-17.45	15-15.45
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	56
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	2	5	1	5	15
Copper	mg/kg	<1	<1	<1	3	2
Lead	mg/kg	1	17	<1	2	3
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	<1	<1	3	3
Zinc	mg/kg	8	8	<1	2	2

Acid Extractable metals in soil						
Our Reference		332467-84	332467-87	332467-92	332467-94	332467-99
Your Reference	UNITS	208	208	208	208	208
Depth		0.2-0.4	1-1.45	5.5-5.95	7.5-7.95	13.5-13.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	26	260	8	22	3
Copper	mg/kg	6	3	1	2	<1
Lead	mg/kg	400	1,400	10	3	1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	2	2	1	<1
Zinc	mg/kg	30	270	11	2	<1

Acid Extractable metals in soil						
Our Reference		332467-106	332467-108	332467-111	332467-112	332467-125
Your Reference	UNITS	BD2/20230901	BD1/20230904	BD4/20230904	BD5/20230904	202 - [TRIPLICATE]
Depth		-	-	-	-	0.15-0.25
Date Sampled		1/09/23	4/09/23	4/09/23	4/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	<1	2	3	4	17
Copper	mg/kg	<1	<1	<1	3	67
Lead	mg/kg	2	1	13	3	31
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	<1	3	52
Zinc	mg/kg	1	9	8	3	47

Misc Soil - Inorg						
Our Reference		332467-1	332467-22	332467-28	332467-29	332467-30
Your Reference	UNITS	202	203	203	203	203
Depth		0.15-0.25	0.25-0.35	4-4.45	5-5.2	5.5-5.95
Date Sampled		1/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		332467-32	332467-38	332467-44	332467-51	332467-63
Your Reference	UNITS	203	203	204	204	204
Depth		8-8.35	14-14.45	0.5-0.7	5-5.2	17-17.45
Date Sampled		5/09/23	5/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		332467-84	332467-87	332467-111	332467-112	332467-116
Your Reference	UNITS	208	208	BD4/20230904	BD5/20230904	BD4/20230905
Depth		0.2-0.4	1-1.45	-	-	-
Date Sampled		30/08/23	30/08/23	4/09/23	4/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Moisture						
Our Reference		332467-1	332467-2	332467-3	332467-5	332467-9
Your Reference	UNITS	202	202	202	202	202
Depth		0.15-0.25	0.5-0.7	0.8-1	1.5-1.7	5.5-5.95
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	7.4	4.2	4.1	10	11

Moisture						
Our Reference		332467-20	332467-22	332467-23	332467-25	332467-26
Your Reference	UNITS	202	203	203	203	203
Depth		18-18.45	0.25-0.35	0.6-0.8	1.5-1.7	2-2.2
Date Sampled		1/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	51	6.6	5.3	4.6	4.8

Moisture						
Our Reference		332467-28	332467-29	332467-30	332467-32	332467-38
Your Reference	UNITS	203	203	203	203	203
Depth		4-4.45	5-5.2	5.5-5.95	8-8.35	14-14.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	3.9	18	15	18	25

Moisture						
Our Reference		332467-41	332467-44	332467-46	332467-47	332467-50
Your Reference	UNITS	203	204	204	204	204
Depth		17-17.45	0.5-0.7	1.5-1.7	2-2.2	4.5-4.7
Date Sampled		5/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	70	6.1	3.7	3.4	8.9

Moisture						
Our Reference		332467-51	332467-54	332467-63	332467-77	332467-78
Your Reference	UNITS	204	204	204	207	207
Depth		5-5.2	8-8.38	17-17.45	14-14.45	15-15.45
Date Sampled		4/09/23	4/09/23	4/09/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	15	14	70	16	67

Moisture						
Our Reference		332467-84	332467-87	332467-89	332467-92	332467-94
Your Reference	UNITS	208	208	208	208	208
Depth		0.2-0.4	1-1.45	2.3-2.5	5.5-5.95	7.5-7.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	4.6	5.4	3.0	15	14

Moisture						
Our Reference		332467-95	332467-99	332467-101	332467-104	332467-105
Your Reference	UNITS	208	208	208	BD1/20230830	BD1/20230901
Depth		8.5-8.95	13.5-13.95	15.5-15.95	-	-
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	22	19	71	2.6	6.1

Moisture						
Our Reference		332467-106	332467-107	332467-108	332467-109	332467-110
Your Reference	UNITS	BD2/20230901	BD3/20230901	BD1/20230904	BD2/20230904	BD3/20230904
Depth		-	-	-	-	-
Date Sampled		1/09/23	1/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Moisture	%	4.2	3.7	4.7	3.4	9.6

Moisture				
Our Reference		332467-111	332467-112	332467-116
Your Reference	UNITS	BD4/20230904	BD5/20230904	BD4/20230905
Depth		-	-	-
Date Sampled		4/09/23	4/09/23	5/09/23
Type of sample		Soil	Soil	Soil
Date prepared	-	12/09/2023	12/09/2023	12/09/2023
Date analysed	-	13/09/2023	13/09/2023	13/09/2023
Moisture	%	18	70	18

Asbestos ID - soils NEPM					
Our Reference		332467-1	332467-22	332467-44	332467-84
Your Reference	UNITS	202	203	204	208
Depth		0.15-0.25	0.25-0.35	0.5-0.7	0.2-0.4
Date Sampled		1/09/23	5/09/23	4/09/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Sample mass tested	g	921.7	927.91	803.66	827.2
Sample Description	-	Brown coarse-grained soil & rocks	Brown sandy soil	Brown sandy soil	Brown sandy soil
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	Amosite
ACM >7mm Estimation*	g	–	–	–	–
FA and AF Estimation*	g	–	–	–	0.0098
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	0.0012

Asbestos ID - materials		
Our Reference		332467-119
Your Reference	UNITS	208/PACM3
Depth		-
Date Sampled		30/08/23
Type of sample		Material
Date analysed	-	14/09/2023
Mass / Dimension of Sample	-	50x35x5mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-30
Date Extracted	-			12/09/2023	28	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date Analysed	-			18/09/2023	28	18/09/2023	18/09/2023		18/09/2023	18/09/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	111	113
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	28	<1	<1	0	114	121
2,2-dichloropropane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	111	119
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	105	115
1,1-dichloropropene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	28	<0.2	<0.2	0	108	115
dibromomethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	28	<1	<1	0	98	109
bromodichloromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	107	119
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	28	<0.5	<0.5	0	107	116
1,3-dichloropropane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	28	<1	<1	0	112	114
1,2-dibromoethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	28	<1	<1	0	95	107
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	105	113
bromoform	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	28	<2	<2	0	102	112
styrene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-30
o-Xylene	mg/kg	1	Org-023	<1	28	<1	<1	0	107	112
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	28	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	96	28	98	98	0	97	101
Surrogate aaa-Trifluorotoluene	%		Org-023	99	28	96	85	12	88	74
Surrogate Toluene-d_8	%		Org-023	99	28	99	99	0	100	100
Surrogate 4-Bromofluorobenzene	%		Org-023	96	28	97	97	0	97	95

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date extracted	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			18/09/2023	1	18/09/2023	18/09/2023		18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	105	97
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	105	97
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	108	101
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	107	98
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	105	97
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	102	94
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	107	99
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	99	1	90	80	12	88	78

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-30
Date extracted	-			[NT]	28	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	28	18/09/2023	18/09/2023		18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	28	<25	<25	0	118	114
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	28	<25	<25	0	118	114
Benzene	mg/kg	0.2	Org-023	[NT]	28	<0.2	<0.2	0	120	115
Toluene	mg/kg	0.5	Org-023	[NT]	28	<0.5	<0.5	0	121	116
Ethylbenzene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	119	113
m+p-xylene	mg/kg	2	Org-023	[NT]	28	<2	<2	0	115	112
o-Xylene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	119	112
Naphthalene	mg/kg	1	Org-023	[NT]	28	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	28	96	85	12	105	74

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	332467-84
Date extracted	-			[NT]	44	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	44	18/09/2023	18/09/2023		18/09/2023	18/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	44	<25	<25	0	113	109
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	44	<25	<25	0	113	109
Benzene	mg/kg	0.2	Org-023	[NT]	44	<0.2	<0.2	0	117	111
Toluene	mg/kg	0.5	Org-023	[NT]	44	<0.5	<0.5	0	117	110
Ethylbenzene	mg/kg	1	Org-023	[NT]	44	<1	<1	0	113	110
m+p-xylene	mg/kg	2	Org-023	[NT]	44	<2	<2	0	110	107
o-Xylene	mg/kg	1	Org-023	[NT]	44	<1	<1	0	115	110
Naphthalene	mg/kg	1	Org-023	[NT]	44	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	44	92	88	4	93	100

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	332467-116
Date extracted	-			[NT]	78	12/09/2023	12/09/2023		[NT]	12/09/2023
Date analysed	-			[NT]	78	18/09/2023	18/09/2023		[NT]	18/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	78	<25	<25	0	[NT]	99
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	78	<25	<25	0	[NT]	99
Benzene	mg/kg	0.2	Org-023	[NT]	78	<0.2	<0.2	0	[NT]	103
Toluene	mg/kg	0.5	Org-023	[NT]	78	<0.5	<0.5	0	[NT]	102
Ethylbenzene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	[NT]	98
m+p-xylene	mg/kg	2	Org-023	[NT]	78	<2	<2	0	[NT]	97
o-Xylene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	[NT]	101
Naphthalene	mg/kg	1	Org-023	[NT]	78	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	78	79	72	9	[NT]	84

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	106	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	106	18/09/2023	18/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	106	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	106	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	106	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	106	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	106	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	106	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	106	95	98	3	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	111	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	111	18/09/2023	18/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	111	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	111	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	111	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	111	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	111	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	111	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	111	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	111	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	111	89	92	3	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	[NT]
Date extracted	-			12/09/2023	78	12/09/2023	12/09/2023		12/09/2023	[NT]
Date analysed	-			17/09/2023	78	17/09/2023	17/09/2023		17/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	78	<100	<100	0	102	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	78	<200	<200	0	111	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	78	280	<200	33	100	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	78	<100	<100	0	102	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	78	360	300	18	111	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	78	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	106	78	113	82	32	111	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date extracted	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			13/09/2023	1	14/09/2023	14/09/2023		13/09/2023	13/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	107	95
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	170	<100	52	104	96
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	570	260	75	114	82
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	107	95
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	520	190	93	104	96
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	700	420	50	114	82
Surrogate o-Terphenyl	%		Org-020	89	1	97	98	1	93	117

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-84
Date extracted	-			[NT]	44	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	44	14/09/2023	14/09/2023		14/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	44	<50	<50	0	106	107
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	44	<100	<100	0	101	107
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	44	<100	<100	0	100	100
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	44	<50	<50	0	106	107
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	44	<100	<100	0	101	107
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	44	<100	<100	0	100	100
Surrogate o-Terphenyl	%		Org-020	[NT]	44	92	92	0	120	85

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	332467-116
Date extracted	-			[NT]	78	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	78	14/09/2023	13/09/2023		13/09/2023	14/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	78	<100	<100	0	104	92
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	78	<200	<200	0	100	95
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	78	680	370	59	86	75
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	78	<100	<100	0	104	92
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	78	630	340	60	100	95
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	78	280	<200	33	86	75
Surrogate o-Terphenyl	%		Org-020	[NT]	78	99	98	1	94	89

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	94	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	94	13/09/2023	13/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	94	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	94	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	94	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	94	86	87	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	106	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	106	13/09/2023	13/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	106	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	106	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	106	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	106	90	89	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	111	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	111	14/09/2023	14/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	111	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	111	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	111	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	111	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	111	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	111	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	111	85	85	0	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date extracted	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			14/09/2023	1	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	103
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	109
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	99
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	100
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	100
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	109	103
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	79
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	102	76
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	118	1	130	126	3	116	121

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-84
Date extracted	-			[NT]	44	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	44	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	114	113
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	123	129
Fluorene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	111	118
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	112	108
Anthracene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	114	108
Pyrene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	117	115
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	101	95
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	44	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	44	<0.05	<0.05	0	118	110
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	44	131	126	4	125	128

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	78	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	78	18/09/2023	18/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	78	<0.4	<0.4	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	78	<0.1	<0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	78	<0.2	<0.2	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	78	99	99	0	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	106	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	106	14/09/2023	14/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	106	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	106	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	106	127	118	7	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	111	12/09/2023	12/09/2023		[NT]	[NT]
Date analysed	-			[NT]	111	14/09/2023	14/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	111	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	111	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	111	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	111	115	116	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date extracted	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			14/09/2023	1	14/09/2023	14/09/2023		14/09/2023	14/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	106
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	102
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	87	89
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	73	83
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	98
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	111
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	120	120
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	94
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	98
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	131	132
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	114	1	120	118	2	112	116

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-84
Date extracted	-			[NT]	44	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	44	14/09/2023	14/09/2023		14/09/2023	14/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	118	124
HCB	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	114	120
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	95	99
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	99	99
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	102	106
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	119	121
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	132	135
Endrin	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	100	105
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	108	108
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	122	120
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	44	124	121	2	122	130

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date extracted	-			12/09/2023	1	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			14/09/2023	1	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	106	100
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	114	1	120	118	2	112	116

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-84
Date extracted	-			[NT]	44	12/09/2023	12/09/2023		12/09/2023	12/09/2023
Date analysed	-			[NT]	44	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	117	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	44	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	44	124	121	2	122	130

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-13	332467-22
Date prepared	-			13/09/2023	1	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			14/09/2023	1	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	112	112
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	107	98
Chromium	mg/kg	1	Metals-020	<1	1	16	14	13	120	102
Copper	mg/kg	1	Metals-020	<1	1	75	43	54	114	#
Lead	mg/kg	1	Metals-020	<1	1	32	20	46	119	79
Mercury	mg/kg	0.1	Metals-021	<0.1	1	0.2	<0.1	67	109	109
Nickel	mg/kg	1	Metals-020	<1	1	52	56	7	112	105
Zinc	mg/kg	1	Metals-020	<1	1	52	36	36	115	103

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-14	332467-84
Date prepared	-			[NT]	44	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			[NT]	44	14/09/2023	14/09/2023		14/09/2023	14/09/2023
Arsenic	mg/kg	4	Metals-020	[NT]	44	<4	<4	0	107	110
Cadmium	mg/kg	0.4	Metals-020	[NT]	44	<0.4	<0.4	0	102	101
Chromium	mg/kg	1	Metals-020	[NT]	44	2	2	0	112	124
Copper	mg/kg	1	Metals-020	[NT]	44	2	2	0	108	111
Lead	mg/kg	1	Metals-020	[NT]	44	7	7	0	111	121
Mercury	mg/kg	0.1	Metals-021	[NT]	44	<0.1	<0.1	0	113	112
Nickel	mg/kg	1	Metals-020	[NT]	44	<1	<1	0	107	106
Zinc	mg/kg	1	Metals-020	[NT]	44	12	13	8	109	#

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	106	13/09/2023	13/09/2023		[NT]	[NT]
Date analysed	-			[NT]	106	14/09/2023	14/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	106	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	106	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	106	<1	<1	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	106	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	106	2	1	67	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	106	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	106	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	106	1	<1	0	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	332467-22
Date prepared	-			13/09/2023	1	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Date analysed	-			13/09/2023	1	13/09/2023	13/09/2023		13/09/2023	13/09/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	100	101

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	44	13/09/2023	13/09/2023		[NT]	[NT]
Date analysed	-			[NT]	44	13/09/2023	13/09/2023		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	44	<5	<5	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

TRH Soil C10-C40 NEPM - The RPD for duplicate results is accepted due to the non homogenous nature of samples 332467-1,1d.

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 332467-1 for Cu and Pb. Therefore a triplicate result has been issued as laboratory sample number 332467-125.
- # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 332467-84; Amosite asbestos identified in 0.0122g of loose fibre bundles

PAH_S:The PQL has been raised due to the high moisture content in sample/s 332467-63,78,78d,112, resulting in a high dilution factor.

TRH_S_NEPM:The PQL has been raised due to the high moisture content in sample/s 332467-63,78,78d,101,112, resulting in a high dilution factor.

TRH_S_SI_NEPM:The PQL has been raised due to the high moisture content in sample/s 332467-63,78,78d resulting in a high dilution factor.

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	332467
Date Sample Received	06/09/2023
Date Instructions Received	12/09/2023
Date Results Expected to be Reported	18/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	123 Soil, 1 Material
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Extra samples received not listed on COC placed on hold.

BH208 1.8-2.0
BH238 0.03-0.15
BD1/20230825 -
BD2/20230823 -
BD5/230905 -

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	Asbestos ID - materials	On Hold
202-0.15-0.25			✓	✓	✓	✓	✓	✓	✓	✓		
202-0.5-0.7			✓	✓								
202-0.8-1			✓	✓	✓			✓				
202-1-1.4												✓
202-1.5-1.7			✓	✓								
202-2-2.2												✓
202-2.5-2.95												✓
202-4-4.45												✓
202-5.5-5.95			✓	✓	✓			✓				
202-6.5-6.95												✓
202-7.5-7.95												✓
202-8.5-8.9												✓
202-9.7-9.95												✓
202-10.5-10.95												✓
202-11.5-11.8												✓
202-12.5-12.95												✓
202-13.5-13.95												✓
202-15.5-15.95												✓
202-16.5-16.95												✓
202-18-18.45		✓	✓									
202-19.5-19.95												✓
203-0.25-0.35			✓	✓	✓	✓	✓	✓	✓	✓		
203-0.6-0.8			✓	✓	✓			✓				
203-1-1.45												✓
203-1.5-1.7			✓	✓								
203-2-2.2			✓	✓								
203-2.5-2.95												✓
203-4-4.45	✓		✓	✓	✓			✓	✓			
203-5-5.2			✓	✓					✓			
203-5.5-5.95	✓		✓	✓	✓			✓	✓			
203-7-7.45												✓
203-8-8.35			✓	✓	✓			✓	✓			

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	Asbestos ID - materials	On Hold
203-9-9.45												✓
203-10-10.45												✓
203-11-11.45												✓
203-12-12.45												✓
203-13-13.35												✓
203-14-14.45		✓	✓		✓			✓	✓			
203-15-15.3												✓
203-16-16.3												✓
203-17-17.45		✓	✓									
203-18.5-18.8												✓
204-0.15-0.25												✓
204-0.5-0.7			✓	✓	✓	✓	✓	✓	✓	✓		
204-1-1.45												✓
204-1.5-1.7			✓	✓	✓			✓				
204-2-2.2			✓	✓								
204-2.5-2.95												✓
204-4-4.45												✓
204-4.5-4.7			✓	✓								
204-5-5.2			✓	✓	✓			✓	✓			
204-5.5-5.95												✓
204-7-7.45												✓
204-8-8.38		✓	✓		✓			✓				
204-9-9.45												✓
204-10-10.45												✓
204-11-1.45												✓
204-12-12.45												✓
204-13-13.3												✓
204-14-14.45												✓
204-15-15.36												✓
204-16-16.45												✓
204-17-17.45		✓	✓		✓			✓	✓			
204-18.5-18.87												✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	Asbestos ID - materials	On Hold
204-20-20.4												✓
207-1-1.45												✓
207-2.5-2.95												✓
207-4-4.45												✓
207-5.5-5.95												✓
207-6.5-6.95												✓
207-8-8.45												✓
207-9-9.45												✓
207-10-10.45												✓
207-11-11.45												✓
207-12-12.45												✓
207-13-13.45												✓
207-14-14.45		✓	✓									
207-15-15.45		✓	✓		✓			✓				
207-16-16.2												✓
207-16.2-16.45												✓
207-17-17.45												✓
207-18.5-18.89												✓
207-20-20.38												✓
208-0.2-0.4			✓	✓	✓	✓	✓	✓	✓	✓		
208-0.5-0.7												✓
208-0.8-1												✓
208-1-1.45			✓	✓	✓			✓	✓	✓		
208-1.5-1.7												✓
208-2.3-2.5			✓	✓								
208-2.5-2.95												✓
208-4-4.45												✓
208-5.5-5.95			✓	✓	✓			✓				
208-6.5-6.95												✓
208-7.5-7.95		✓	✓		✓			✓				
208-8.5-8.95		✓	✓									
208-10.5-10.75												✓

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Sample ID	VOCs in soil	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metalsin soil	Misc Soil - Inorg	Asbestos ID - soils NEPM	Asbestos ID - materials	On Hold
208-11.5-11.8												✓
208-12.5-12.85												✓
208-13.5-13.95		✓	✓		✓			✓				
208-14.5-14.85												✓
208-15.5-15.95		✓	✓									
208-17-17.95												✓
208-18.5-18.95												✓
BD1/20230830			✓	✓								
BD1/20230901			✓	✓								
BD2/20230901			✓	✓	✓			✓				
BD3/20230901			✓	✓								
BD1/20230904			✓	✓	✓			✓				
BD2/20230904			✓	✓								
BD3/20230904			✓	✓								
BD4/20230904			✓	✓	✓			✓	✓			
BD5/20230904			✓	✓	✓			✓	✓			
BD1/20230905												✓
BD2/20230905												✓
BD3/20230905												✓
BD4/20230905			✓	✓					✓			
Trip Spike/20230830			✓									
Trip Blank/20230830			✓									
208/PACM3											✓	
BH208-1.8-2.0												✓
BH238-0.03-0.15												✓
BD1/20230825												✓
BD2/20230823												✓
BD5/230905												✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Quote No: 23SY225	**Sampler:**	ZW		12 Ashley St, Chatswood 2067 NSW
Email:	david.holden@douglaspartners.com.au					**Attn:**	Aileen Hie
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)			

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	Notes/ Preservation/ Additional Requirements
1	202	0.15	0.25	1/09/23	S	G/B	x											
2	202	0.5	0.7	1/09/23	S	G								x				
3	202	0.8	1	1/09/23	S	G							x					
4	202	1	1.4	1/09/23	S	G											x	
5	202	1.5	1.7	1/09/23	S	G								x				
6	202	2	2.2	1/09/23	S	G											x	
7	202	2.5	2.95	1/09/23	S	G											x	
8	202	4	4.45	1/09/23	S	G											x	
9	202	5.5	5.95	1/09/23	S	G							x					
10	202	6.5	6.95	1/09/23	S	G											x	
11	202	7.5	7.95	1/09/23	S	G											x	
12	202	8.5	8.9	1/09/23	S	G											x	
13	202	9.7	9.95	1/09/23	S	G											x	
14	202	10.5	10.95	1/09/23	S	G											x	

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:		**Transported to laboratory by:** DP	**Lab Ref. No:**
Send results to:	Douglas Partners Pty Ltd		**Received by:**
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:** (02) 9809 0666	**Date & Time:**
Relinquished by:	PJ, 2:00 pm, 6/9/23	**Date:** 6/09/2023 **Signed:**	**Signed:**

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 6/09/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	
18	202	11.5	11.8	1/09/23	S	G											x	
16	202	12.5	12.95	1/09/23	S	G											x	
17	202	13.5	13.95	1/09/23	S	G											x	
18	202	15.5	15.95	1/09/23	S	G											x	
19	202	16.5	16.95	1/09/23	S	G											x	
20	202	18	18.45	1/09/23	S	G								x		x		
21	202	19.5	19.95	1/09/23	S	G											x	
22	203	0.25	0.35	5/09/23	S	G/B	x											
23	203	0.6	0.8	5/09/23	S	G							x					
24	203	1	1.45	5/09/23	S	G											x	
25	203	1.5	1.7	5/09/23	S	G								x				
26	203	2	2.2	5/09/23	S	G								x				
27	203	2.5	2.95	5/09/23	S	G											x	
28	203	4	4.45	5/09/23	S	G					x				x			
29	203	5	5.2	5/09/23	S	G						x		x				
30	203	5.5	5.95	5/09/23	S	G					x				x			
31	203	7	7.45	5/09/23	S	G											x	
32	203	8	8.35	5/09/23	S	G					x							

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	6/09/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	
33	203	9	9.45	5/09/23	S	G											x	
34	203	10	10.45	5/09/23	S	G											x	
36	203	11	11.45	5/09/23	S	G											x	
36	203	12	12.45	5/09/23	S	G											x	
37	203	13	13.35	5/09/23	S	G											x	
38	203	14	14.45	5/09/23	S	G					x					x		
39	203	15	15.3	5/09/23	S	G											x	
40	203	16	16.3	5/09/23	S	G											x	
41	203	17	17.45	5/09/23	S	G								x		x		
42	203	18.5	18.8	5/09/23	S	G											x	
43	204	0.15	0.25	4/09/23	S	G/B											x	
44	204	0.5	0.7	4/09/23	S	G/B	x											
45	204	1	1.45	4/09/23	S	G											x	
46	204	1.5	1.7	4/09/23	S	G							x					
47	204	2	2.2	4/09/23	S	G								x				
48	204	2.5	2.95	4/09/23	S	G											x	
49	204	4	4.45	4/09/23	S	G											x	
50	204	4.5	4.7	4/09/23	S	G								x				
51	204	5	5.2	4/09/23	S	G					x							

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	6/09/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	
57	204	5.5	5.95	4/09/23	S	G											x	
58	204	7	7.45	4/09/23	S	G											x	
59	204	8	8.38	4/09/23	S	G							x			x		
60	204	9	9.45	4/09/23	S	G											x	
61	204	10	10.45	4/09/23	S	G											x	
62	204	11	1.45	4/09/23	S	G											x	
63	204	12	12.45	4/09/23	S	G											x	
64	204	13	13.3	4/09/23	S	G											x	
65	204	14	14.45	4/09/23	S	G											x	
66	204	15	15.36	4/09/23	S	G											x	
67	204	16	16.45	4/09/23	S	G											x	
68	204	17	17.45	4/09/23	S	G					x					x		
69	204	18.5	18.87	4/09/23	S	G											x	
70	204	20	20.4	4/09/23	S	G											x	
71	207	1	1.45	31/08/23	S	G											x	
72	207	2.5	2.95	31/08/23	S	G											x	
73	207	4	4.45	31/08/23	S	G											x	
74	207	5.5	5.95	31/08/23	S	G											x	
75	207	6.5	6.95	31/08/23	S	G											x	

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	6/09/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	
71	207	8	8.45	31/08/23	S	G											x	
72	207	9	9.45	31/08/23	S	G											x	
73	207	10	10.45	31/08/23	S	G											x	
74	207	11	11.45	31/08/23	S	G											x	
75	207	12	12.45	31/08/23	S	G											x	
76	207	13	13.45	31/08/23	S	G											x	
77	207	14	14.45	31/08/23	S	G								x		x		
78	207	15	15.45	31/08/23	S	G							x			x		
79	207	16	16.2	31/08/23	S	G											x	
80	207	16.2	16.45	31/08/23	S	G											x	
81	207	17	17.45	31/08/23	S	G											x	
82	207	18.5	18.89	31/08/23	S	G											x	
83	207	20	20.38	31/08/23	S	G											x	
84	208	0.2	0.4	30/08/23	S	G/B	x											
85	208	0.5	0.7	30/08/23	S	G/B											x	
86	208	0.8	1	30/08/23	S	G/B											x	
87	208	1	1.45	30/08/23	S	G				x								
88	208	1.5	1.7	30/08/23	S	G/B											x	
89	208	2.3	2.5	30/08/23	S	G								x				

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	6/09/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	
90	208	2.5	2.95	30/08/23	S	G											x	
91	208	4	4.45	30/08/23	S	G											x	
92	208	5.5	5.95	30/08/23	S	G							x					
93	208	6.5	6.95	30/08/23	S	G											x	
94	208	7.5	7.95	30/08/23	S	G							x			x		
95	208	8.5	8.95	30/08/23	S	G								x		x		
96	208	10.5	10.75	30/08/23	S	G											x	
97	208	11.5	11.8	30/08/23	S	G											x	
98	208	12.5	12.85	30/08/23	S	G											x	
99	208	13.5	13.95	30/08/23	S	G							x			x		
100	208	14.5	14.85	30/08/23	S	G											x	
101	208	15.5	15.95	30/08/23	S	G								x		x		
102	208	17	17.95	30/08/23	S	G											x	
103	208	18.5	18.95	30/08/23	S	G											x	
104	BD1/20230830		-	30/08/23	S	G								x				
105	BD1/20230901		-	1/09/23	S	G								x				
106	BD2/20230901		-	1/09/23	S	G							x					
107	BD3/20230901		-	1/09/23	S	G								x				
108	BD1/20230904		-	4/09/23	S	G							x					

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CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:**	6/09/2023

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: Combo 7AN	Asbestos ID	Combo 5	Combo 4AN	Combo 4	Phenols	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold	Notes/ Preservation/ Additional Requirements
109	BD2/20230904		-	4/09/23	S	G								x				
110	BD3/20230904		-	4/09/23	S	G								x				
111	BD4/20230904		-	4/09/23	S	G					x							
112	BD5/20230904		-	4/09/23	S	G					x							
113	BD1/20230905		-	5/09/23	S	G												Please forward for interlab anlaysis
114	BD2/20230905		-	5/09/23	S	G												Please forward for interlab anlaysis
115	BD3/20230905		-	5/09/23	S	G												Please forward for interlab anlaysis
116	BD4/20230905		-	5/09/23	S	G						x		x				
117	Trip Spike/20230830		-	30/08/23	S	G								x				
118	Trip Blank/20230830		-	30/08/23	S	G								x				
119	208/PACM3	1.45	-	30/08/23	M	B		x										

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CERTIFICATE OF ANALYSIS 332467-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	Additional analyses 11 samples
Date samples received	06/09/2023
Date completed instructions received	20/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	27/09/2023
Date of Issue	27/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		332467-A-11
Your Reference	UNITS	202
Depth		7.5-7.95
Date Sampled		1/09/23
Type of sample		Soil
Date extracted	-	21/09/2023
Date analysed	-	22/09/2023
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	94

svTRH (C10-C40) in Soil						
Our Reference		332467-A-11	332467-A-14	332467-A-21	332467-A-42	332467-A-65
Your Reference	UNITS	202	202	202	203	204
Depth		7.5-7.95	10.5-10.95	19.5-19.95	18.5-18.8	20-20.4
Date Sampled		1/09/23	1/09/23	1/09/23	5/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	23/09/2023	23/09/2023	23/09/2023	23/09/2023	23/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	80	78	79	78

svTRH (C10-C40) in Soil			
Our Reference		332467-A-83	332467-A-84
Your Reference	UNITS	207	208
Depth		20-20.38	0.2-0.4
Date Sampled		31/08/23	30/08/23
Type of sample		Soil	Soil
Date extracted	-	21/09/2023	21/09/2023
Date analysed	-	23/09/2023	23/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	78	80

sTPH in Soil (C10-C40)-Silica			
Our Reference		332467-A-1	332467-A-112
Your Reference	UNITS	202	BD5/20230904
Depth		0.15-0.25	-
Date Sampled		1/09/23	4/09/23
Type of sample		Soil	Soil
Date extracted	-	21/09/2023	21/09/2023
Date analysed	-	27/09/2023	27/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	<50
TPH C_{15} - C_{28}	mg/kg	<100	<100
TPH C_{29} - C_{36}	mg/kg	<100	150
TPH >C_{10} -C_{16}	mg/kg	<50	<50
TPH >C_{16} -C_{34}	mg/kg	<100	200
TPH >C_{34} -C_{40}	mg/kg	120	<100
Surrogate o-Terphenyl	%	87	97

Acid Extractable metals in soil		
Our Reference		332467-A-88
Your Reference	UNITS	208
Depth		1.5-1.7
Date Sampled		30/08/23
Type of sample		Soil
Date prepared	-	21/09/2023
Date analysed	-	21/09/2023
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	48
Copper	mg/kg	1
Lead	mg/kg	230
Mercury	mg/kg	<0.1
Nickel	mg/kg	<1
Zinc	mg/kg	38

Moisture			
Our Reference		332467-A-11	332467-A-88
Your Reference	UNITS	202	208
Depth		7.5-7.95	1.5-1.7
Date Sampled		1/09/23	30/08/23
Type of sample		Soil	Soil
Date prepared	-	21/09/2023	21/09/2023
Date analysed	-	22/09/2023	22/09/2023
Moisture	%	16	3.5

Metals from Leaching Fluid pH 2.9 or 5				
Our Reference		332467-A-1	332467-A-84	332467-A-87
Your Reference	UNITS	202	208	208
Depth		0.15-0.25	0.2-0.4	1-1.45
Date Sampled		1/09/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil
Date extracted	-	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
pH of soil for fluid# determ.	pH units	7.4	7.2	7.1
pH of soil TCLP (after HCl)	pH units	1.8	1.8	1.8
Extraction fluid used		1	1	1
pH of final Leachate	pH units	5.0	5.0	5.0
Chromium	mg/L	[NA]	[NA]	0.23
Lead	mg/L	[NA]	14	31
Nickel	mg/L	0.05	[NA]	[NA]

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2023	[NT]	[NT]	[NT]	[NT]	21/09/2023	[NT]
Date analysed	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	109	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	122	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2023	11	21/09/2023	21/09/2023		21/09/2023	[NT]
Date analysed	-			23/09/2023	11	23/09/2023	23/09/2023		23/09/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	11	<50	<50	0	107	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	11	<100	<100	0	102	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	11	<100	<100	0	118	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	11	<50	<50	0	107	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	11	<100	<100	0	102	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	11	<100	<100	0	118	[NT]
Surrogate o-Terphenyl	%		Org-020	81	11	79	80	1	88	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	14	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	14	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	14	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	14	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	14	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	14	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	14	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	14	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	14	80	79	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	21	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	21	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	21	78	78	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	42	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	42	79	77	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	65	78	77	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	83	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	83	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	83	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	83	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	83	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	83	78	80	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	84	23/09/2023	23/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	84	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	84	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	84	80	81	1	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	[NT]
Date analysed	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	88	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	99	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	240	82	114	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	88	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	170	52	99	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	120	400	108	114	[NT]
Surrogate o-Terphenyl	%		Org-020	79	1	87	98	12	96	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	112	21/09/2023	21/09/2023		[NT]	[NT]
Date analysed	-			[NT]	112	27/09/2023	27/09/2023		[NT]	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	112	<50	<50	0	[NT]	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	112	<100	<100	0	[NT]	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	112	150	280	60	[NT]	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	112	<50	<50	0	[NT]	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	112	200	300	40	[NT]	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	112	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	112	97	92	5	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			21/09/2023	[NT]	[NT]	[NT]	[NT]	21/09/2023	[NT]
Date analysed	-			21/09/2023	[NT]	[NT]	[NT]	[NT]	21/09/2023	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	107	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Chromium	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	97	[NT]
Lead	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	95	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples were out of the recommended holding time for this analysis.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	332467-A
Date Sample Received	06/09/2023
Date Instructions Received	20/09/2023
Date Results Expected to be Reported	27/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analyses 11 samples
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
202-0.15-0.25		✓				✓	✓	✓	✓			✓	
202-0.5-0.7													✓
202-0.8-1													✓
202-1-1.4													✓
202-1.5-1.7													✓
202-2-2.2													✓
202-2.5-2.95													✓
202-4-4.45													✓
202-5.5-5.95													✓
202-6.5-6.95													✓
202-7.5-7.95		✓	✓	✓									
202-8.5-8.9													✓
202-9.7-9.95													✓
202-10.5-10.95	✓	✓											
202-11.5-11.8													✓
202-12.5-12.95													✓
202-13.5-13.95													✓
202-15.5-15.95													✓
202-16.5-16.95													✓
202-18-18.45													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
202-19.5-19.95	✓	✓											
203-0.25-0.35													✓
203-0.6-0.8													✓
203-1-1.45													✓
203-1.5-1.7													✓
203-2-2.2													✓
203-2.5-2.95													✓
203-4-4.45													✓
203-5-5.2													✓
203-5.5-5.95													✓
203-7-7.45													✓
203-8-8.35													✓
203-9-9.45													✓
203-10-10.45													✓
203-11-11.45													✓
203-12-12.45													✓
203-13-13.35													✓
203-14-14.45													✓
203-15-15.3													✓
203-16-16.3													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
203-17-17.45													✓
203-18.5-18.8	✓	✓											
204-0.15-0.25													✓
204-0.5-0.7													✓
204-1-1.45													✓
204-1.5-1.7													✓
204-2-2.2													✓
204-2.5-2.95													✓
204-4-4.45													✓
204-4.5-4.7													✓
204-5-5.2													✓
204-5.5-5.95													✓
204-7-7.45													✓
204-8-8.38													✓
204-9-9.45													✓
204-10-10.45													✓
204-11-1.45													✓
204-12-12.45													✓
204-13-13.3													✓
204-14-14.45													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
204-15-15.36													✓
204-16-16.45													✓
204-17-17.45													✓
204-18.5-18.87													✓
204-20-20.4	✓	✓											
207-1-1.45													✓
207-2.5-2.95													✓
207-4-4.45													✓
207-5.5-5.95													✓
207-6.5-6.95													✓
207-8-8.45													✓
207-9-9.45													✓
207-10-10.45													✓
207-11-11.45													✓
207-12-12.45													✓
207-13-13.45													✓
207-14-14.45													✓
207-15-15.45													✓
207-16-16.2													✓
207-16.2-16.45													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
207-17-17.45													✓
207-18.5-18.89													✓
207-20-20.38	✓	✓											
208-0.2-0.4		✓				✓	✓	✓	✓		✓		
208-0.5-0.7													✓
208-0.8-1													✓
208-1-1.45						✓	✓	✓	✓	✓	✓		
208-1.5-1.7					✓								
208-2.3-2.5													✓
208-2.5-2.95													✓
208-4-4.45													✓
208-5.5-5.95													✓
208-6.5-6.95													✓
208-7.5-7.95													✓
208-8.5-8.95													✓
208-10.5-10.75													✓
208-11.5-11.8													✓
208-12.5-12.85													✓
208-13.5-13.95													✓
208-14.5-14.85													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
208-15.5-15.95													✓
208-17-17.95													✓
208-18.5-18.95													✓
BD1/20230830													✓
BD1/20230901													✓
BD2/20230901													✓
BD3/20230901													✓
BD1/20230904													✓
BD2/20230904													✓
BD3/20230904													✓
BD4/20230904													✓
BD5/20230904		✓											
BD1/20230905													✓
BD2/20230905													✓
BD3/20230905													✓
BD4/20230905													✓
Trip Spike/20230830													✓
Trip Blank/20230830													✓
208/PACM3													✓
BH208-1.8-2.0													✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metalsin soil	pH of soil for fluid#determ.	pH of soil TCLP (after HCl)	Extraction fluid used	pH of final Leachate	Chromium	Lead	Nickel	On Hold
BH238-0.03-0.15													✓
BD1/20230825													✓
BD2/20230823													✓
BD5/230905													✓
202 - [TRIPLICATE]-0.15-0.25													✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 333010

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.02, Banksmeadow**
Number of Samples	108 Soil, 1 Material
Date samples received	13/09/2023
Date completed instructions received	14/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	22/09/2023
Date of Issue	26/09/2023
Reissue Details	This report replaces R00 due to amendment to depth

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Lucy Zhu, Stuart Chen
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Lucy Zhu, Asbestos Supervisor
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in soil				
Our Reference		333010-61	333010-63	333010-65
Your Reference	UNITS	209	209	209
Depth		5-5.2	6.5-6.95	9-9.45
Date Sampled		11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil
Date Extracted	-	15/09/2023	15/09/2023	15/09/2023
Date Analysed	-	16/09/2023	16/09/2023	16/09/2023
Dichlorodifluoromethane	mg/kg	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1
chloroform	mg/kg	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1
Cyclohexane	mg/kg	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1
Benzene	mg/kg	<0.2	<0.2	<0.2
dibromomethane	mg/kg	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1
Toluene	mg/kg	10	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1

VOCs in soil				
Our Reference		333010-61	333010-63	333010-65
Your Reference	UNITS	209	209	209
Depth		5-5.2	6.5-6.95	9-9.45
Date Sampled		11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil
Ethylbenzene	mg/kg	92	<1	<1
bromoform	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	30	<2	<2
styrene	mg/kg	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1
o-Xylene	mg/kg	6	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1
isopropylbenzene	mg/kg	41	2	<1
bromobenzene	mg/kg	<1	<1	<1
n-propyl benzene	mg/kg	42	2	<1
2-chlorotoluene	mg/kg	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1
1,3,5-trimethyl benzene	mg/kg	5	<1	<1
tert-butyl benzene	mg/kg	<1	<1	<1
1,2,4-trimethyl benzene	mg/kg	27	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1
sec-butyl benzene	mg/kg	3	1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1
4-isopropyl toluene	mg/kg	3	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1
n-butyl benzene	mg/kg	5	1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1
Surrogate Dibromofluoromethane	%	84	85	87
Surrogate aaa-Trifluorotoluene	%	98	89	84
Surrogate Toluene-d_8	%	117	108	99
Surrogate 4-Bromofluorobenzene	%	115	108	104

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-5	333010-13	333010-26	333010-27	333010-30
Your Reference	UNITS	201	201	205	205	205
Depth		1.9-2	12-12.3	9-9.3	10-10.45	13-13.45
Date Sampled		6/09/23	6/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	20/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	84	73	87	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-33	333010-35	333010-36	333010-38	333010-39
Your Reference	UNITS	205	206	206	206	206
Depth		17-17.45	0.15-0.25	0.5-0.7	1.5-1.7	2-2.2
Date Sampled		7/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	20/09/2023	16/09/2023	16/09/2023	20/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	63	94	95	98	99

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-42	333010-43	333010-46	333010-51	333010-55
Your Reference	UNITS	206	206	206	206	209
Depth		5-5.2	5.5-5.95	9.5-9.8	16.5-16.95	0.5-0.7
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	19/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	20/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	140
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	180
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	170
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	2
Ethylbenzene	mg/kg	<1	<1	<1	<1	6
m+p-xylene	mg/kg	<2	<2	<2	<2	3
o-Xylene	mg/kg	<1	<1	<1	<1	2
Naphthalene	mg/kg	<1	<1	<1	<1	1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	5
Surrogate aaa-Trifluorotoluene	%	88	91	90	67	90

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-57	333010-59	333010-60	333010-61	333010-63
Your Reference	UNITS	209	209	209	209	209
Depth		2-2.2	3.5-3.7	4-4.45	5-5.2	6.5-6.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	50	1,100	300	69
TRH C_6 - C_{10}	mg/kg	28	89	1,500	520	110
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	27	58	780	380	110
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.6	5	53	10	<0.5
Ethylbenzene	mg/kg	<1	14	480	92	<1
m+p-xylene	mg/kg	<2	9	160	30	<2
o-Xylene	mg/kg	<1	4	27	6	<1
Naphthalene	mg/kg	5	3	71	25	<1
Total +ve Xylenes	mg/kg	<1	13	190	36	<1
Surrogate aaa-Trifluorotoluene	%	95	97	84	98	89

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-64	333010-65	333010-67	333010-71	333010-77
Your Reference	UNITS	209	209	209	209	210
Depth		8-8.3	9-9.45	11-11.3	15-15.2	0.5-0.7
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	2
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	84	88	94	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-79	333010-81	333010-82	333010-83	333010-86
Your Reference	UNITS	210	210	210	210	210
Depth		2-2.2	3.5-3.7	4-4.2	5.5-5.8	8.5-8.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	20/09/2023	16/09/2023	20/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	3	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	24	4	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	101	97	84	91

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-91	333010-99	333010-100	333010-101	333010-102
Your Reference	UNITS	210	BD1/20230908	BD2/20230908	BD3/20230908	BD4/20230908
Depth		13.5-13.6	-	-	-	-
Date Sampled		12/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	100	105	99	92

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		333010-106	333010-107	333010-108
Your Reference	UNITS	BD4/20230912	Trip Spike/20230908	Trip Blank/20230908
Depth		-	-	-
Date Sampled		12/09/2023	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	<25	[NA]	<25
TRH C_6 - C_{10}	mg/kg	<25	[NA]	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	[NA]	<25
Benzene	mg/kg	<0.2	93%	<0.2
Toluene	mg/kg	<0.5	94%	<0.5
Ethylbenzene	mg/kg	<1	93%	<1
m+p-xylene	mg/kg	<2	93%	<2
o-Xylene	mg/kg	<1	93%	<1
Naphthalene	mg/kg	14	[NA]	<1
Total +ve Xylenes	mg/kg	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	92	99	91

svTRH (C10-C40) in Soil						
Our Reference		333010-5	333010-13	333010-26	333010-27	333010-30
Your Reference	UNITS	201	201	205	205	205
Depth		1.9-2	12-12.3	9-9.3	10-10.45	13-13.45
Date Sampled		6/09/23	6/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	94	91	92	91

svTRH (C10-C40) in Soil						
Our Reference		333010-33	333010-35	333010-36	333010-38	333010-39
Your Reference	UNITS	205	206	206	206	206
Depth		17-17.45	0.15-0.25	0.5-0.7	1.5-1.7	2-2.2
Date Sampled		7/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	330	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	960	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	1,300	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	980	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	570	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	1,600	<50	<50	<50	<50
Surrogate o-Terphenyl	%	107	93	94	92	90

svTRH (C10-C40) in Soil						
Our Reference		333010-42	333010-43	333010-46	333010-51	333010-55
Your Reference	UNITS	206	206	206	206	209
Depth		5-5.2	5.5-5.95	9.5-9.8	16.5-16.95	0.5-0.7
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	180
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	220	1,200
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	810	420
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	1,000	1,800
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	190
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	190
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	810	1,500
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	410	220
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	1,200	1,900
Surrogate o-Terphenyl	%	91	94	94	108	118

svTRH (C10-C40) in Soil						
Our Reference		333010-57	333010-59	333010-60	333010-61	333010-63
Your Reference	UNITS	209	209	209	209	209
Depth		2-2.2	3.5-3.7	4-4.45	5-5.2	6.5-6.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	17/09/2023	17/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	170	620	2,400	1,100	93
TRH C_{15} - C_{28}	mg/kg	630	1,600	3,900	2,000	180
TRH C_{29} - C_{36}	mg/kg	290	910	470	350	<100
Total +ve TRH (C10-C36)	mg/kg	1,100	3,100	6,800	3,400	270
TRH >C_{10} -C_{16}	mg/kg	190	630	1,800	850	66
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	180	630	1,700	820	66
TRH >C_{16} -C_{34}	mg/kg	810	2,200	4,200	2,200	180
TRH >C_{34} -C_{40}	mg/kg	180	380	280	200	<100
Total +ve TRH (>C10-C40)	mg/kg	1,200	3,200	6,200	3,200	240
Surrogate o-Terphenyl	%	116	#	#	#	83

svTRH (C10-C40) in Soil						
Our Reference		333010-64	333010-65	333010-67	333010-71	333010-77
Your Reference	UNITS	209	209	209	209	210
Depth		8-8.3	9-9.45	11-11.3	15-15.2	0.5-0.7
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	17/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	88
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	530
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	330
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	940
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	100
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	100
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	750
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	180
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	1,000
Surrogate o-Terphenyl	%	90	88	90	89	105

svTRH (C10-C40) in Soil						
Our Reference		333010-79	333010-81	333010-82	333010-83	333010-86
Your Reference	UNITS	210	210	210	210	210
Depth		2-2.2	3.5-3.7	4-4.2	5.5-5.8	8.5-8.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	17/09/2023	17/09/2023	17/09/2023	17/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	120	190	140	53	<50
TRH C_{15} - C_{28}	mg/kg	640	610	670	570	<100
TRH C_{29} - C_{36}	mg/kg	240	290	430	400	<100
Total +ve TRH (C10-C36)	mg/kg	1,000	1,100	1,200	1,000	<50
TRH >C_{10} -C_{16}	mg/kg	160	190	180	80	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	160	190	160	76	<50
TRH >C_{16} -C_{34}	mg/kg	730	760	960	840	<100
TRH >C_{34} -C_{40}	mg/kg	190	220	250	300	<100
Total +ve TRH (>C10-C40)	mg/kg	1,100	1,200	1,400	1,200	<50
Surrogate o-Terphenyl	%	99	115	117	124	88

svTRH (C10-C40) in Soil						
Our Reference		333010-91	333010-99	333010-100	333010-101	333010-102
Your Reference	UNITS	210	BD1/20230908	BD2/20230908	BD3/20230908	BD4/20230908
Depth		13.5-13.6	-	-	-	-
Date Sampled		12/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	16/09/2023	16/09/2023	16/09/2023	16/09/2023	16/09/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	83	80	77	71

svTRH (C10-C40) in Soil		
Our Reference		333010-106
Your Reference	UNITS	BD4/20230912
Depth		-
Date Sampled		12/09/2023
Type of sample		Soil
Date extracted	-	15/09/2023
Date analysed	-	17/09/2023
TRH C_{10} - C_{14}	mg/kg	200
TRH C_{15} - C_{28}	mg/kg	750
TRH C_{29} - C_{36}	mg/kg	390
Total +ve TRH (C10-C36)	mg/kg	1,300
TRH >C_{10} -C_{16}	mg/kg	230
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	210
TRH >C_{16} -C_{34}	mg/kg	990
TRH >C_{34} -C_{40}	mg/kg	180
Total +ve TRH (>C10-C40)	mg/kg	1,400
Surrogate o-Terphenyl	%	132

sTPH in Soil (C10-C40)-Silica					
Our Reference		333010-33	333010-51	333010-60	333010-61
Your Reference	UNITS	205	206	209	209
Depth		17-17.45	16.5-16.95	4-4.45	5-5.2
Date Sampled		7/09/23	8/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023
TPH C_{10} - C_{14}	mg/kg	<50	<50	1,100	570
TPH C_{15} - C_{28}	mg/kg	100	<100	2,000	1,300
TPH C_{29} - C_{36}	mg/kg	270	200	270	200
TPH >C_{10} -C_{16}	mg/kg	<50	<50	840	480
TPH >C_{16} -C_{34}	mg/kg	300	230	2,100	1,300
TPH >C_{34} -C_{40}	mg/kg	<100	<100	120	<100
Surrogate o-Terphenyl	%	92	97	#	#

PAHs in Soil						
Our Reference		333010-5	333010-13	333010-26	333010-35	333010-36
Your Reference	UNITS	201	201	205	206	206
Depth		1.9-2	12-12.3	9-9.3	0.15-0.25	0.5-0.7
Date Sampled		6/09/23	6/09/23	7/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	135	134	134	95	103

PAHs in Soil						
Our Reference		333010-39	333010-42	333010-46	333010-55	333010-57
Your Reference	UNITS	206	206	206	209	209
Depth		2-2.2	5-5.2	9.5-9.8	0.5-0.7	2-2.2
Date Sampled		8/09/23	8/09/23	8/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	1.6	2.9
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.4	0.4
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.7	0.8
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.7	0.8
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.4	0.4
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.4	0.4
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.7	0.7
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.4	0.4
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.2	0.3
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	0.2	0.2
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	5.9	7.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	0.6	0.6
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	0.6	0.6
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	0.7	0.7
Surrogate p-Terphenyl-d14	%	136	133	139	134	91

PAHs in Soil						
Our Reference		333010-59	333010-61	333010-63	333010-64	333010-65
Your Reference	UNITS	209	209	209	209	209
Depth		3.5-3.7	5-5.2	6.5-6.95	8-8.3	9-9.45
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	4.6	48	0.2	0.1	0.2
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	0.3	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.3	0.3	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.3	0.3	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	0.06	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	6.6	50	0.2	0.1	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	89	81	132	131	131

PAHs in Soil						
Our Reference		333010-67	333010-71	333010-77	333010-79	333010-81
Your Reference	UNITS	209	209	210	210	210
Depth		11-11.3	15-15.2	0.5-0.7	2-2.2	3.5-3.7
Date Sampled		11/09/23	11/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	<0.1	<0.1	1.9	0.2	0.5
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Phenanthrene	mg/kg	<0.1	<0.1	0.4	0.4	2.8
Anthracene	mg/kg	<0.1	<0.1	0.1	0.1	0.6
Fluoranthene	mg/kg	<0.1	<0.1	0.5	0.8	3.1
Pyrene	mg/kg	<0.1	<0.1	0.5	0.7	2.7
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0.2	0.6	1.4
Chrysene	mg/kg	<0.1	<0.1	0.3	0.3	1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	0.4	0.6	2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.2	0.4	1.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.1	0.2	0.6
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.1	0.2	0.5
Total +ve PAH's	mg/kg	<0.05	<0.05	5.0	4.6	16
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	0.6	1.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	0.6	1.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	0.7	1.6
Surrogate p-Terphenyl-d14	%	131	130	126	94	131

PAHs in Soil						
Our Reference		333010-82	333010-83	333010-86	333010-91	333010-99
Your Reference	UNITS	210	210	210	210	BD1/20230908
Depth		4-4.2	5.5-5.8	8.5-8.95	13.5-13.6	-
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	110	5.5	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	1.6	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	9.5	0.5	<0.1	<0.1	<0.1
Anthracene	mg/kg	1.9	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	7.2	0.4	<0.1	<0.1	<0.1
Pyrene	mg/kg	4.7	0.3	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	2.2	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	2.9	0.3	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	2.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.68	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	140	7.3	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.3	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	125	126	133	126	134

PAHs in Soil				
Our Reference		333010-101	333010-102	333010-106
Your Reference	UNITS	BD3/20230908	BD4/20230908	BD4/20230912
Depth		-	-	-
Date Sampled		8/09/23	8/09/23	12/09/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023
Naphthalene	mg/kg	<0.1	<0.1	92
Acenaphthylene	mg/kg	<0.1	<0.1	0.1
Acenaphthene	mg/kg	<0.1	<0.1	0.6
Fluorene	mg/kg	<0.1	<0.1	1.4
Phenanthrene	mg/kg	<0.1	<0.1	8.2
Anthracene	mg/kg	<0.1	<0.1	1.7
Fluoranthene	mg/kg	<0.1	<0.1	6.0
Pyrene	mg/kg	<0.1	<0.1	3.6
Benzo(a)anthracene	mg/kg	<0.1	<0.1	1.8
Chrysene	mg/kg	<0.1	<0.1	2.5
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	120
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	1.0
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	1.0
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	1.0
Surrogate p-Terphenyl-d14	%	131	129	121

Organochlorine Pesticides in soil						
Our Reference		333010-35	333010-55	333010-57	333010-63	333010-65
Your Reference	UNITS	206	209	209	209	209
Depth		0.15-0.25	0.5-0.7	2-2.2	6.5-6.95	9-9.45
Date Sampled		8/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	0.2	0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	2.8	3.6	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	11	19	0.4	0.4
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	4.6	6.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	19	29	0.4	0.4
Surrogate TCMX	%	127	89	94	120	122

Organochlorine Pesticides in soil		
Our Reference		333010-79
Your Reference	UNITS	210
Depth		2-2.2
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	15/09/2023
Date analysed	-	15/09/2023
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	0.7
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	3.5
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	0.5
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	4.8
Surrogate TCMX	%	128

PCBs in Soil						
Our Reference		333010-35	333010-55	333010-57	333010-63	333010-65
Your Reference	UNITS	206	209	209	209	209
Depth		0.15-0.25	0.5-0.7	2-2.2	6.5-6.95	9-9.45
Date Sampled		8/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Aroclor 1016	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	127	101	94	120	122

PCBs in Soil		
Our Reference		333010-79
Your Reference	UNITS	210
Depth		2-2.2
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	15/09/2023
Date analysed	-	15/09/2023
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	128

Misc Soil - Inorg						
Our Reference		333010-26	333010-35	333010-36	333010-42	333010-55
Your Reference	UNITS	205	206	206	206	209
Depth		9-9.3	0.15-0.25	0.5-0.7	5-5.2	0.5-0.7
Date Sampled		7/09/23	8/09/23	8/09/23	8/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		333010-57	333010-77	333010-79	333010-99	333010-102
Your Reference	UNITS	209	210	210	BD1/20230908	BD4/20230908
Depth		2-2.2	0.5-0.7	2-2.2	-	-
Date Sampled		11/09/23	12/09/23	12/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Acid Extractable metals in soil						
Our Reference		333010-5	333010-13	333010-26	333010-35	333010-36
Your Reference	UNITS	201	201	205	206	206
Depth		1.9-2	12-12.3	9-9.3	0.15-0.25	0.5-0.7
Date Sampled		6/09/23	6/09/23	7/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	4	2	2	4	1
Copper	mg/kg	2	<1	<1	6	<1
Lead	mg/kg	4	1	<1	8	<1
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	<1	<1	3	<1
Zinc	mg/kg	13	<1	<1	13	<1

Acid Extractable metals in soil						
Our Reference		333010-39	333010-42	333010-46	333010-55	333010-57
Your Reference	UNITS	206	206	206	209	209
Depth		2-2.2	5-5.2	9.5-9.8	0.5-0.7	2-2.2
Date Sampled		8/09/23	8/09/23	8/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	2	1
Chromium	mg/kg	2	2	1	300	210
Copper	mg/kg	<1	<1	<1	130	200
Lead	mg/kg	1	1	<1	1,700	1,200
Mercury	mg/kg	<0.1	<0.1	<0.1	20	24
Nickel	mg/kg	<1	<1	<1	11	17
Zinc	mg/kg	2	2	<1	1,000	600

Acid Extractable metals in soil						
Our Reference		333010-59	333010-61	333010-63	333010-64	333010-65
Your Reference	UNITS	209	209	209	209	209
Depth		3.5-3.7	5-5.2	6.5-6.95	8-8.3	9-9.45
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	23	<4	<4	<4
Cadmium	mg/kg	0.9	0.6	<0.4	<0.4	<0.4
Chromium	mg/kg	140	120	8	3	2
Copper	mg/kg	60	43	2	<1	<1
Lead	mg/kg	720	380	12	2	2
Mercury	mg/kg	31	9.7	0.1	<0.1	<0.1
Nickel	mg/kg	15	7	<1	<1	<1
Zinc	mg/kg	290	340	19	3	4

Acid Extractable metals in soil						
Our Reference		333010-67	333010-71	333010-77	333010-79	333010-81
Your Reference	UNITS	209	209	210	210	210
Depth		11-11.3	15-15.2	0.5-0.7	2-2.2	3.5-3.7
Date Sampled		11/09/23	11/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	<4	<4	<4	4
Cadmium	mg/kg	<0.4	<0.4	0.7	0.4	0.6
Chromium	mg/kg	3	23	130	88	93
Copper	mg/kg	<1	5	41	38	46
Lead	mg/kg	3	12	860	460	490
Mercury	mg/kg	<0.1	<0.1	7.6	8.2	10
Nickel	mg/kg	<1	3	10	10	13
Zinc	mg/kg	3	12	230	170	290

Acid Extractable metals in soil						
Our Reference		333010-82	333010-83	333010-86	333010-91	333010-99
Your Reference	UNITS	210	210	210	210	BD1/20230908
Depth		4-4.2	5.5-5.8	8.5-8.95	13.5-13.6	-
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	110	<4	<4	<4
Cadmium	mg/kg	0.7	1	<0.4	<0.4	<0.4
Chromium	mg/kg	1,600	19,000	7	6	1
Copper	mg/kg	66	170	<1	<1	<1
Lead	mg/kg	9,900	100,000	13	28	1
Mercury	mg/kg	5.9	8.3	<0.1	<0.1	<0.1
Nickel	mg/kg	29	55	<1	<1	<1
Zinc	mg/kg	840	4,300	1	4	1

Acid Extractable metals in soil						
Our Reference		333010-101	333010-102	333010-106	333010-110	333010-111
Your Reference	UNITS	BD3/20230908	BD4/20230908	BD4/20230912	206 - [TRIPLICATE]	210 - [TRIPLICATE]
Depth		-	-	-	0.15-0.25	2-2.2
Date Sampled		8/09/23	8/09/23	12/09/2023	8/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Arsenic	mg/kg	<4	<4	9	<4	<4
Cadmium	mg/kg	<0.4	<0.4	1	<0.4	0.4
Chromium	mg/kg	2	3	1,800	4	93
Copper	mg/kg	<1	<1	100	7	38
Lead	mg/kg	1	1	12,000	11	480
Mercury	mg/kg	<0.1	<0.1	10	<0.1	8.3
Nickel	mg/kg	<1	<1	25	3	12
Zinc	mg/kg	2	2	1,300	15	190

Acid Extractable Cations in Soil						
Our Reference		333010-26	333010-30	333010-33	333010-61	333010-63
Your Reference	UNITS	205	205	205	209	209
Depth		9-9.3	13-13.45	17-17.45	5-5.2	6.5-6.95
Date Sampled		7/09/23	7/09/23	7/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium	mg/kg	20	50	1,200	3,500	190
Potassium	mg/kg	10	40	70	160	70
Magnesium	mg/kg	20	50	1,500	320	160
Sodium	mg/kg	40	20	410	110	20

Acid Extractable Cations in Soil						
Our Reference		333010-65	333010-71	333010-82	333010-83	333010-86
Your Reference	UNITS	209	209	210	210	210
Depth		9-9.45	15-15.2	4-4.2	5.5-5.8	8.5-8.95
Date Sampled		11/09/23	11/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium	mg/kg	410	760	6,300	11,000	330
Potassium	mg/kg	30	360	400	890	30
Magnesium	mg/kg	70	210	1,200	1,600	50
Sodium	mg/kg	20	160	340	440	10

Acid Extractable Cations in Soil		
Our Reference		333010-91
Your Reference	UNITS	210
Depth		13.5-13.6
Date Sampled		12/09/23
Type of sample		Soil
Date prepared	-	22/09/2023
Date analysed	-	22/09/2023
Calcium	mg/kg	80
Potassium	mg/kg	70
Magnesium	mg/kg	80
Sodium	mg/kg	30

Moisture						
Our Reference		333010-5	333010-13	333010-26	333010-27	333010-30
Your Reference	UNITS	201	201	205	205	205
Depth		1.9-2	12-12.3	9-9.3	10-10.45	13-13.45
Date Sampled		6/09/23	6/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	8.3	18	16	20	18

Moisture						
Our Reference		333010-33	333010-35	333010-36	333010-38	333010-39
Your Reference	UNITS	205	206	206	206	206
Depth		17-17.45	0.15-0.25	0.5-0.7	1.5-1.7	2-2.2
Date Sampled		7/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	71	3.4	1.8	2.2	4.2

Moisture						
Our Reference		333010-42	333010-43	333010-46	333010-51	333010-55
Your Reference	UNITS	206	206	206	206	209
Depth		5-5.2	5.5-5.95	9.5-9.8	16.5-16.95	0.5-0.7
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	18	15	18	67	10

Moisture						
Our Reference		333010-57	333010-59	333010-60	333010-61	333010-63
Your Reference	UNITS	209	209	209	209	209
Depth		2-2.2	3.5-3.7	4-4.45	5-5.2	6.5-6.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	9.7	7.4	16	15	20

Moisture						
Our Reference		333010-64	333010-65	333010-67	333010-71	333010-77
Your Reference	UNITS	209	209	209	209	210
Depth		8-8.3	9-9.45	11-11.3	15-15.2	0.5-0.7
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	21	18	20	27	12

Moisture						
Our Reference		333010-79	333010-81	333010-82	333010-83	333010-86
Your Reference	UNITS	210	210	210	210	210
Depth		2-2.2	3.5-3.7	4-4.2	5.5-5.8	8.5-8.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	11	13	18	29	17

Moisture						
Our Reference		333010-91	333010-99	333010-100	333010-101	333010-102
Your Reference	UNITS	210	BD1/20230908	BD2/20230908	BD3/20230908	BD4/20230908
Depth		13.5-13.6	-	-	-	-
Date Sampled		12/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	18/09/2023	18/09/2023	18/09/2023	18/09/2023	18/09/2023
Moisture	%	18	1.7	1.9	3.2	17

Moisture		
Our Reference		333010-106
Your Reference	UNITS	BD4/20230912
Depth		-
Date Sampled		12/09/2023
Type of sample		Soil
Date prepared	-	15/09/2023
Date analysed	-	18/09/2023
Moisture	%	18

Asbestos ID - soils NEPM						
Our Reference		333010-5	333010-35	333010-55	333010-57	333010-77
Your Reference	UNITS	201	206	209	209	210
Depth		1.9-2	0.15-0.25	0.5-0.7	2-2.2	0.5-0.7
Date Sampled		6/09/23	8/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Sample mass tested	g	769.56	839.13	775	727.36	805.69
Sample Description	-	Brown sandy soil & rocks	Grey sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks	Brown sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibre detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	0.8191	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	See Above	Chrysotile Amosite Crocidolite	Amosite
ACM >7mm Estimation*	g	–	–	0.5526	–	–
FA and AF Estimation*	g	–	–	0.0823	0.0608	0.0008
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	0.0106	0.0084	<0.001

Asbestos ID - soils NEPM				
Our Reference		333010-79	333010-81	333010-82
Your Reference	UNITS	210	210	210
Depth		2-2.2	3.5-3.7	4-4.2
Date Sampled		12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil
Date analysed	-	21/09/2023	21/09/2023	21/09/2023
Sample mass tested	g	748.26	702.06	730.36
Sample Description	-	Brown sandy soil & rocks	Brown sandy soil & rocks	Black sandy soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Organic fibre detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	1.5928
Asbestos ID in soil <0.1g/kg*	-	Chrysotile Amosite	Chrysotile Amosite Crocidolite	See Above
ACM >7mm Estimation*	g	–	–	1.1633
FA and AF Estimation*	g	0.0012	0.0050	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001

Misc Inorg - Soil						
Our Reference		333010-26	333010-30	333010-33	333010-61	333010-63
Your Reference	UNITS	205	205	205	209	209
Depth		9-9.3	13-13.45	17-17.45	5-5.2	6.5-6.95
Date Sampled		7/09/23	7/09/23	7/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
pH 1:5 soil:water	pH Units	6.6	5.2	4.6	7.6	7.1
Electrical Conductivity 1:5 soil:water	µS/cm	26	62	360	160	34
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	41	23	<10
Sulphate, SO4 1:5 soil:water	mg/kg	10	64	400	41	10
Soluble Bicarb as $CaCO_3$ *	mg/kg	54	26	240	340	84
Soluble Carbonate as $CaCO_3$ *	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Soluble Alkalinity as $CaCO_3$ *	mg/kg	54	26	240	340	84

Misc Inorg - Soil						
Our Reference		333010-65	333010-71	333010-82	333010-83	333010-86
Your Reference	UNITS	209	209	210	210	210
Depth		9-9.45	15-15.2	4-4.2	5.5-5.8	8.5-8.95
Date Sampled		11/09/23	11/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
pH 1:5 soil:water	pH Units	6.1	6.5	7.7	7.7	6.4
Electrical Conductivity 1:5 soil:water	µS/cm	39	83	190	400	42
Chloride, Cl 1:5 soil:water	mg/kg	<10	<10	<10	20	<10
Sulphate, SO4 1:5 soil:water	mg/kg	23	24	76	150	23
Soluble Bicarb as $CaCO_3$ *	mg/kg	94	130	200	260	75
Soluble Carbonate as $CaCO_3$ *	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Soluble Alkalinity as $CaCO_3$ *	mg/kg	94	130	200	260	75

Misc Inorg - Soil		
Our Reference		333010-91
Your Reference	UNITS	210
Depth		13.5-13.6
Date Sampled		12/09/23
Type of sample		Soil
Date prepared	-	15/09/2023
Date analysed	-	20/09/2023
pH 1:5 soil:water	pH Units	6.5
Electrical Conductivity 1:5 soil:water	µS/cm	36
Chloride, Cl 1:5 soil:water	mg/kg	<10
Sulphate, SO4 1:5 soil:water	mg/kg	10
Soluble Bicarb as $CaCO_3$ *	mg/kg	78
Soluble Carbonate as $CaCO_3$ *	mg/kg	<0.5
Soluble Hydroxide as $CaCO_3$ *	mg/kg	<0.5
Soluble Alkalinity as $CaCO_3$ *	mg/kg	78

Asbestos ID - materials		
Our Reference		333010-109
Your Reference	UNITS	209/PACM4
Depth		-
Date Sampled		11/09/23
Type of sample		Material
Date analysed	-	15/09/2023
Mass / Dimension of Sample	-	100x50x7mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-63
Date Extracted	-			15/09/2023	61	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date Analysed	-			16/09/2023	61	16/09/2023	16/09/2023		16/09/2023	16/09/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	113	107
cis-1,2-dichloroethene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	<1	61	<1	<1	0	117	102
2,2-dichloropropane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	105	99
1,1,1-trichloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	103	88
1,1-dichloropropene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	61	<0.2	<0.2	0	109	97
dibromomethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	<1	61	<1	<1	0	107	97
bromodichloromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	103	82
trans-1,3-dichloropropene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	61	10	10	0	109	104
1,3-dichloropropane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	<1	61	<1	<1	0	99	76
1,2-dibromoethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	<1	61	<1	<1	0	97	86
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	61	92	94	2	111	115
bromoform	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	61	30	31	3	114	116
styrene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-63
o-Xylene	mg/kg	1	Org-023	<1	61	6	6	0	115	117
1,2,3-trichloropropane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	<1	61	41	38	8	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	<1	61	42	40	5	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	<1	61	5	5	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	<1	61	27	25	8	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	<1	61	3	3	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	<1	61	3	2	40	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	<1	61	5	5	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	<1	61	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	104	61	84	84	0	97	90
Surrogate aaa-Trifluorotoluene	%		Org-023	85	61	98	95	3	96	90
Surrogate Toluene-d_8	%		Org-023	101	61	117	118	1	97	102
Surrogate 4-Bromofluorobenzene	%		Org-023	99	61	115	114	1	98	107

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date Extracted	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	[NT]
Date Analysed	-			[NT]	65	16/09/2023	20/09/2023		16/09/2023	[NT]
Dichlorodifluoromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	111	[NT]
cis-1,2-dichloroethene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
bromochloromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
chloroform	mg/kg	1	Org-023	[NT]	65	<1	<1	0	113	[NT]
2,2-dichloropropane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	106	[NT]
1,1,1-trichloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	93	[NT]
1,1-dichloropropene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	65	<0.2	<0.2	0	107	[NT]
dibromomethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
trichloroethene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	109	[NT]
bromodichloromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	95	[NT]
trans-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	65	<0.5	<0.5	0	109	[NT]
1,3-dichloropropane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
dibromochloromethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	85	[NT]
1,2-dibromoethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
tetrachloroethene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	94	[NT]
1,1,1,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
chlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	115	[NT]
bromoform	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	65	<2	<2	0	121	[NT]
styrene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	119	[NT]
1,2,3-trichloropropane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
isopropylbenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
bromobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
n-propyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
2-chlorotoluene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
4-chlorotoluene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
tert-butyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
sec-butyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
n-butyl benzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	65	87	88	1	96	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	65	84	94	11	97	[NT]
Surrogate Toluene-d_8	%		Org-023	[NT]	65	99	98	1	97	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	65	104	103	1	100	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date extracted	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			16/09/2023	35	16/09/2023	16/09/2023		16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	35	<25	<25	0	111	110
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	35	<25	<25	0	111	110
Benzene	mg/kg	0.2	Org-023	<0.2	35	<0.2	<0.2	0	109	102
Toluene	mg/kg	0.5	Org-023	<0.5	35	<0.5	<0.5	0	109	106
Ethylbenzene	mg/kg	1	Org-023	<1	35	<1	<1	0	111	111
m+p-xylene	mg/kg	2	Org-023	<2	35	<2	<2	0	114	116
o-Xylene	mg/kg	1	Org-023	<1	35	<1	<1	0	115	115
Naphthalene	mg/kg	1	Org-023	<1	35	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	85	35	94	94	0	96	92

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	333010-63
Date extracted	-			[NT]	61	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			[NT]	61	16/09/2023	16/09/2023		16/09/2023	16/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	61	300	270	11	115	110
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	61	520	490	6	115	110
Benzene	mg/kg	0.2	Org-023	[NT]	61	<0.2	<0.2	0	107	97
Toluene	mg/kg	0.5	Org-023	[NT]	61	10	10	0	109	104
Ethylbenzene	mg/kg	1	Org-023	[NT]	61	92	94	2	115	115
m+p-xylene	mg/kg	2	Org-023	[NT]	61	30	31	3	121	116
o-Xylene	mg/kg	1	Org-023	[NT]	61	6	6	0	119	117
Naphthalene	mg/kg	1	Org-023	[NT]	61	25	23	8	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	61	98	95	3	97	90

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	333010-81
Date extracted	-			[NT]	65	15/09/2023	15/09/2023		[NT]	15/09/2023
Date analysed	-			[NT]	65	16/09/2023	20/09/2023		[NT]	16/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	65	<25	<25	0	[NT]	118
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	65	<25	<25	0	[NT]	118
Benzene	mg/kg	0.2	Org-023	[NT]	65	<0.2	<0.2	0	[NT]	104
Toluene	mg/kg	0.5	Org-023	[NT]	65	<0.5	<0.5	0	[NT]	111
Ethylbenzene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	123
m+p-xylene	mg/kg	2	Org-023	[NT]	65	<2	<2	0	[NT]	126
o-Xylene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	125
Naphthalene	mg/kg	1	Org-023	[NT]	65	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	65	84	94	11	[NT]	94

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	16/09/2023	20/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	79	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	79	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	79	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	79	3	2	40	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	79	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	79	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	79	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	79	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	79	94	92	2	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	102	16/09/2023	16/09/2023		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	102	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	102	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	102	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	102	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	102	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	102	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	102	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	102	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	102	92	94	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date extracted	-			15/09/2023	26	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			16/09/2023	26	16/09/2023	17/09/2023		16/09/2023	17/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	26	<50	<50	0	110	126
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	26	<100	<100	0	99	#
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	26	<100	<100	0	86	#
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	26	<50	<50	0	110	126
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	26	<100	<100	0	99	#
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	26	<100	<100	0	86	#
Surrogate o-Terphenyl	%		Org-020	86	26	91	94	3	94	107

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	333010-81
Date extracted	-			[NT]	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			[NT]	35	16/09/2023	16/09/2023		16/09/2023	17/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	35	<50	<50	0	108	105
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	35	<100	<100	0	98	84
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	35	<100	<100	0	86	#
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	35	<50	<50	0	108	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	35	<100	<100	0	98	84
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	35	<100	<100	0	86	#
Surrogate o-Terphenyl	%		Org-020	[NT]	35	93	91	2	91	102

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	16/09/2023	16/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	65	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	65	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	65	88	90	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	17/09/2023	17/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	79	120	99	19	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	79	640	460	33	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	79	240	300	22	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	79	160	140	13	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	79	730	600	20	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	79	190	240	23	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	79	99	101	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	102	16/09/2023	17/09/2023		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	102	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	102	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	102	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	102	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	102	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	102	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	102	71	81	13	[NT]	[NT]

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			15/09/2023	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			21/09/2023	[NT]	[NT]	[NT]	[NT]	21/09/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	73	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	75	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	73	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	75	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	116	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date extracted	-			15/09/2023	26	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	26	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	105	97
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	115	115
Fluorene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	105	107
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	106	89
Anthracene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	114	71
Pyrene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	113	78
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	99	#
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	26	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	26	<0.05	<0.05	0	108	#
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	26	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	135	26	134	128	5	122	119

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	333010-81
Date extracted	-			[NT]	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			[NT]	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	114	101
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	131	109
Fluorene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	120	100
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	116	#
Anthracene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	121	#
Pyrene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	125	#
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	107	#
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	35	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	35	<0.05	<0.05	0	124	66
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	35	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	35	95	92	3	133	122

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	65	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	65	15/09/2023	15/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	65	0.2	<0.1	67	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	65	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	65	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	65	131	129	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	79	0.2	0.2	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	79	0.4	0.4	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	79	0.1	0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	79	0.8	0.8	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	79	0.7	0.7	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	79	0.6	0.6	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	79	0.3	0.3	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	79	0.6	0.8	29	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	79	0.4	0.57	35	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	79	0.2	0.2	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	79	0.2	0.2	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	79	94	95	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	102	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	102	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	102	129	125	3	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date extracted	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	110	116
HCB	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	108	115
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	93	83
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	95	87
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	104	102
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	117	#
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	128	139
Endrin	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	96	#
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	102	#
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	116	124
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	129	35	127	132	4	116	130

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	[NT]
Date analysed	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	122	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	118	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	81	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	95	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	110	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	129	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	139	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	92	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	65	0.4	<0.1	120	114	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	140	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	65	122	123	1	132	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	79	0.7	0.6	15	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	79	3.5	3.0	15	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	79	0.5	0.4	22	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	79	128	129	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date extracted	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	111	100
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	35	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	129	35	127	132	4	116	130

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	[NT]
Date analysed	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	123	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	65	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	65	122	123	1	132	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	79	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	79	128	129	1	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date prepared	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	35	<5	<5	0	95	99

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-55
Date prepared	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			15/09/2023	35	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Arsenic	mg/kg	4	Metals-020	<4	35	<4	<4	0	111	118
Cadmium	mg/kg	0.4	Metals-020	<0.4	35	<0.4	<0.4	0	106	105
Chromium	mg/kg	1	Metals-020	<1	35	4	13	106	116	88
Copper	mg/kg	1	Metals-020	<1	35	6	30	133	113	81
Lead	mg/kg	1	Metals-020	<1	35	8	12	40	121	#
Mercury	mg/kg	0.1	Metals-021	<0.1	35	<0.1	<0.1	0	84	#
Nickel	mg/kg	1	Metals-020	<1	35	3	12	120	110	110
Zinc	mg/kg	1	Metals-020	<1	35	13	19	38	111	#

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	333010-81
Date prepared	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			[NT]	65	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Arsenic	mg/kg	4	Metals-020	[NT]	65	<4	<4	0	114	120
Cadmium	mg/kg	0.4	Metals-020	[NT]	65	<0.4	<0.4	0	108	107
Chromium	mg/kg	1	Metals-020	[NT]	65	2	3	40	120	96
Copper	mg/kg	1	Metals-020	[NT]	65	<1	<1	0	115	##
Lead	mg/kg	1	Metals-020	[NT]	65	2	2	0	119	#
Mercury	mg/kg	0.1	Metals-021	[NT]	65	<0.1	<0.1	0	110	#
Nickel	mg/kg	1	Metals-020	[NT]	65	<1	<1	0	113	109
Zinc	mg/kg	1	Metals-020	[NT]	65	4	2	67	114	##

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	79	15/09/2023	15/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	79	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	79	0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	79	88	150	52	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	79	38	33	14	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	79	460	400	14	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	79	8.2	7.6	8	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	79	10	11	10	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	79	170	140	19	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Date analysed	-			[NT]	102	15/09/2023	15/09/2023		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	102	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	102	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	102	3	3	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	102	<1	<1	0	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	102	1	2	67	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	102	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	102	<1	<1	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	102	2	2	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable Cations in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-30
Date prepared	-			22/09/2023	26	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			22/09/2023	26	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Calcium	mg/kg	10	Metals-020	<10	26	20	40	67	104	#
Potassium	mg/kg	10	Metals-020	<10	26	10	10	0	95	117
Magnesium	mg/kg	10	Metals-020	<10	26	20	20	0	106	116
Sodium	mg/kg	10	Metals-020	<10	26	40	30	29	93	98

QUALITY CONTROL: Acid Extractable Cations in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	91	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	91	22/09/2023	22/09/2023		[NT]	[NT]
Calcium	mg/kg	10	Metals-020	[NT]	91	80	90	12	[NT]	[NT]
Potassium	mg/kg	10	Metals-020	[NT]	91	70	70	0	[NT]	[NT]
Magnesium	mg/kg	10	Metals-020	[NT]	91	80	80	0	[NT]	[NT]
Sodium	mg/kg	10	Metals-020	[NT]	91	30	30	0	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	333010-30
Date prepared	-			15/09/2023	26	15/09/2023	15/09/2023		15/09/2023	15/09/2023
Date analysed	-			20/09/2023	26	20/09/2023	20/09/2023		20/09/2023	20/09/2023
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	26	6.6	6.6	0	101	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	26	26	25	4	103	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	26	<10	<10	0	95	85
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	26	10	10	0	88	#
Soluble Bicarb as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	26	54	48	12	[NT]	[NT]
Soluble Carbonate as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	26	<0.5	<0.5	0	[NT]	[NT]
Soluble Hydroxide as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	26	<0.5	<0.5	0	[NT]	[NT]
Soluble Alkalinity as $CaCO_3$ *	mg/kg	0.5	Inorg-006	<0.5	26	54	48	12	107	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 333010-35 for Cr, Cu, Pb and Ni. Therefore a triplicate result has been issued as laboratory sample number 333010-110.
- The laboratory RPD acceptance criteria has been exceeded for 333010-79 for Cr. Therefore a triplicate result has been issued as laboratory sample number 333010-111.
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- ## Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

TRH Soil C10-C40 NEPM - # Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in samples 333010-55ms,81ms have caused interference.

TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in samples 333010-59,60,61 have caused interference.

PAH_S:# Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in samples 333010-55ms,81ms have caused interference.

OCP_S_MSMS:# Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in samples 333010-55ms have caused interference.

Sulphate, SO4 by IC: # Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Cations in soil - # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 333010-55; Chrysotile, Amosite & Crocidolite asbestos identified in 3.6837g of fibre cement material >7mm
Sample 333010-55; Chrysotile & Amosite asbestos identified in 0.0914g of fibrous matted material
Sample 333010-57; Chrysotile, Amosite & Crocidolite asbestos identified in 0.0760g of fibrous matted material
Sample 333010-77; Amosite asbestos identified in 0.0008g of loose fibre bundles
Sample 333010-79; Chrysotile & Amosite asbestos identified in 0.0012g of loose fibre bundles
Sample 333010-81; Chrysotile, Amosite & Crocidolite asbestos identified in 0.0050g of loose fibre bundles
Sample 333010-82; Chrysotile & Amosite asbestos identified in 7.7555g of fibre cement material >7mm

PCBs in Soil - The PQL has been raised due to interferences from analytes (other than those being tested) in sample 333010-55.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.02, Banksmeadow
Envirolab Reference	333010
Date Sample Received	13/09/2023
Date Instructions Received	14/09/2023
Date Results Expected to be Reported	22/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	108 Soil, 1 Material
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Sample not received:
206/3-3.2
206/3.5-3.7

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	sTPH in Soil (C10-C40)-Silica	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Misc Inorg - Soil	Acid ExtractableCations in Soil	Asbestos ID - materials	On Hold
201-0.16-0.2														✓
201-0.4-0.5														✓
201-0.9-1														✓
201-1-1.45														✓
201-1.9-2			✓	✓	✓				✓	✓				
201-2.5-2.95														✓
201-4-4.45														✓
201-5.5-5.95														✓
201-6.5-6.95														✓
201-8-8.4														✓
201-9.5-9.75														✓
201-11-11.45														✓
201-12-12.3			✓	✓	✓				✓					
201-13-13.3														✓
201-14-14.45														✓
201-15-15.25														✓
205-0.25-0.3														✓
205-0.5-0.6														✓
205-0.9-1														✓
205-1-1.45														✓
205-2.5-2.95														✓
205-4-4.45														✓
205-5.5-5.95														✓
205-6.5-6.8														✓
205-8-8.3														✓
205-9-9.3	✓		✓	✓	✓			✓	✓		✓	✓		
205-10-10.45			✓	✓										
205-11-11.3														✓
205-12-12.3														✓
205-13-13.45			✓	✓							✓	✓		
205-15-15.45														✓
205-16-16.45														✓

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Sample ID	sTPH in Soil (C10-C40)-Silica	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Misc Inorg - Soil	Acid ExtractableCations in Soil	Asbestos ID - materials	On Hold
205-17-17.45	✓		✓	✓							✓	✓		
205-18.5-18.8														✓
206-0.15-0.25			✓	✓	✓	✓	✓	✓	✓	✓				
206-0.5-0.7			✓	✓	✓			✓	✓					
206-1-1.45														✓
206-1.5-1.7			✓	✓										
206-2-2.2			✓	✓	✓				✓					
206-2.5-2.95														✓
206-4-4.45														✓
206-5-5.2			✓	✓	✓			✓	✓					
206-5.5-5.95			✓	✓										
206-6.5-6.95														✓
206-8-8.35														✓
206-9.5-9.8			✓	✓	✓				✓					
206-11-11.45														✓
206-12.5-12.73														✓
206-14-14.45														✓
206-15-15.45														✓
206-16.5-16.95	✓		✓	✓										
206-18-18.3														✓
206-19.5-19.88														✓
209-0-0.2														✓
209-0.5-0.7			✓	✓	✓	✓	✓	✓	✓	✓				
209-1-1.45														✓
209-2-2.2			✓	✓	✓	✓	✓	✓	✓	✓				
209-2.5-2.9														✓
209-3.5-3.7			✓	✓	✓				✓					
209-4-4.45	✓		✓	✓										
209-5-5.2	✓	✓	✓	✓	✓				✓		✓	✓		
209-5.5-5.95														✓
209-6.5-6.95		✓	✓	✓	✓	✓	✓		✓		✓	✓		
209-8-8.3	✓		✓	✓	✓				✓					

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Sample ID	sTPH in Soil (C10-C40)-Silica	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Misc Inorg - Soil	Acid ExtractableCations in Soil	Asbestos ID - materials	On Hold
209-9-9.45		✓	✓	✓	✓	✓	✓		✓		✓	✓		
209-10-10.45														✓
209-11-11.3	✓		✓	✓	✓				✓					
209-12-12.45														✓
209-13-13.45														✓
209-14-14.3														✓
209-15-15.2	✓		✓	✓	✓				✓		✓	✓		
209-15.2-15.45														✓
209-16.5-16.73														✓
209-18-18.25														✓
209-19.5-19.95														✓
210-0-0.2														✓
210-0.5-0.7			✓	✓	✓			✓	✓	✓				
210-1-1.21														✓
210-2-2.2			✓	✓	✓	✓	✓	✓	✓	✓				
210-2.5-2.95														✓
210-3.5-3.7			✓	✓	✓				✓	✓				
210-4-4.2			✓	✓	✓				✓	✓	✓	✓		
210-5.5-5.8			✓	✓	✓				✓		✓	✓		
210-5.8-5.95														✓
210-7-7.45														✓
210-8.5-8.95			✓	✓	✓				✓		✓	✓		
210-9.5-9.95														✓
210-10.5-10.8														✓
210-11.5-11.95														✓
210-12.5-12.8														✓
210-13.6-13.6	✓		✓	✓	✓				✓		✓	✓		
210-13.6-13.95														✓
210-14.5-14.73														✓
210-15.5-15.72														✓
210-16.5-16.77														✓
210-18-18.2														✓

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Sample ID	sTPH in Soil (C10-C40)-Silica	VOCs in soil	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Misc Inorg - Soil	Acid ExtractableCations in Soil	Asbestos ID - materials	On Hold
210-18.2-18.41														✓
210-19.5-19.74														✓
BD1/20230908			✓	✓	✓			✓	✓					
BD2/20230908			✓	✓										
BD3/20230908			✓	✓	✓				✓					
BD4/20230908			✓	✓	✓			✓	✓					
BD1/20230912														✓
BD2/20230912														✓
BD3/20230912														✓
BD4/20230912			✓	✓	✓				✓					
Trip Spike/20230908			✓											
Trip Blank/20230908			✓											
209/PACM4													✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Quote No: 23SY225	**Sampler:**	ZW/JS		12 Ashley St, Chatswoc
Email:	david.holden@douglaspartners.com.au					**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						(02) 9910 6200
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport ar			

33 3010

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
1	201	0.16	0.2	6/09/23	S	G/B											x
2	201	0.4	0.5	6/09/23	S	G/B											x
3	201	0.9	1	6/09/23	S	G/B											x
4	201	1	1.45	6/09/23	S	G											x
5	201	1.9	2	6/09/23	S	G/B		x									
6	201	2.5	2.95	6/09/23	S	G											x
7	201	4	4.45	6/09/23	S	G											x
8	201	5.5	5.95	6/09/23	S	G											x
9	201	6.5	6.95	6/09/23	S	G											x
10	201	8	8.4	6/09/23	S	G											x
11	201	9.5	9.75	6/09/23	S	G											x
12	201	11	11.45	6/09/23	S	G											x
13	201	12	12.3	6/09/23	S	G							x				
14	201	13	13.3	6/09/23	S	G											x

Metals to analyse:					**LAB RECEIPT**
Number of samples in container:		**Transported to laboratory by:**	Courier		**Lab Ref. No:**
Send results to:	Douglas Partners Pty Ltd				**Received by:**
Address:	96 Hermitage Rd, West Ryde, 2114	**Phone:**			**Date & Time:**
Relinquished by:	ZW, 11am, 13/9/23	**Date:**	13/09/2023	**Signed:**	**Signed:**

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Servi
Project Manager:	David Holden		**Dispatch date:**

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
15	201	14	14.45	6/09/23	S	G											x
16	201	15	15.25	6/09/23	S	G											x
17	205	0.25	0.3	7/09/23	S	G/B											x
18	205	0.5	0.6	7/09/23	S	G/B											x
19	205	0.9	1	7/09/23	S	G/B											x
20	205	1	1.45	7/09/23	S	G											x
21	205	2.5	2.95	7/09/23	S	G											x
22	205	4	4.45	7/09/23	S	G											x
23	205	5.5	5.95	7/09/23	S	G											x
24	205	6.5	6.8	7/09/23	S	G											x
25	205	8	8.3	7/09/23	S	G											x
26	205	9	9.3	7/09/23	S	G					x	x				x	
27	205	10	10.45	7/09/23	S	G								x			
28	205	11	11.3	7/09/23	S	G											x
29	205	12	12.3	7/09/23	S	G											x
30	205	13	13.45	7/09/23	S	G						x		x			
31	205	15	15.45	7/09/23	S	G											x
32	205	16	16.45	7/09/23	S	G											x

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Servi
Project Manager:	David Holden		**Dispatch date:**

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
33	205	17	17.45	7/09/23	S	G						x		x		x	
34	205	18.5	18.8	7/09/23	S	G											x
35	206	0.15	0.25	8/09/23	S	G/B	x										
36	206	0.5	0.7	8/09/23	S	G					x						
37	206	1	1.45	8/09/23	S	G											x
38	206	1.5	1.7	8/09/23	S	G								x			
39	206	2	2.2	8/09/23	S	G							x				
40	206	2.5	2.95	8/09/23	S	G											x
NR	206	3	3.2	8/09/23	S	G											x
NR	206	3.5	3.7	8/09/23	S	G											x
41	206	4	4.45	8/09/23	S	G											x
42	206	5	5.2	8/09/23	S	G					x						
43	206	5.5	5.95	8/09/23	S	G								x			
44	206	6.5	6.95	8/09/23	S	G											x
45	206	8	8.35	8/09/23	S	G											x
46	206	9.5	9.8	8/09/23	S	G							x				
47	206	11	11.45	8/09/23	S	G											x
48	206	12.5	12.73	8/09/23	S	G											x
49	206	14	14.45	8/09/23	S	G											x

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Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Servi
Project Manager:	David Holden		**Dispatch date:**

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
50	206	15	15.45	8/09/23	S	G											x
51	206	16.5	16.95	8/09/23	S	G								x		x	
52	206	18	18.3	8/09/23	S	G											x
53	206	19.5	19.88	8/09/23	S	G											x
54	209	0	0.2	11/09/23	S	G/B											x
55	209	0.5	0.7	11/09/23	S	G/B	x										
56	209	1	1.45	11/09/23	S	G/B											x
57	209	2	2.2	11/09/23	S	G/B	x										
58	209	2.5	2.9	11/09/23	S	G											x
59	209	3.5	3.7	11/09/23	S	G/B							x				
60	209	4	4.45	11/09/23	S	G								x		x	
61	209	5	5.2	11/09/23	S	G/B						x	x		x	x	
62	209	5.5	5.95	11/09/23	S	G											x
63	209	6.5	6.95	11/09/23	S	G			x			x			x		
64	209	8	8.3	11/09/23	S	G							x			x	
65	209	9	9.45	11/09/23	S	G			x			x			x		
66	209	10	10.45	11/09/23	S	G											x
67	209	11	11.3	11/09/23	S	G							x			x	

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Servi
Project Manager:	David Holden		**Dispatch date:**

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
68	209	12	12.45	11/09/23	S	G											x
69	209	13	13.45	11/09/23	S	G											x
70	209	14	14.3	11/09/23	S	G											
71	209	15	15.2	11/09/23	S	G						x	x			x	
72	209	15.2	15.45	11/09/23	S	G											x
73	209	16.5	16.73	11/09/23	S	G											x
74	209	18	18.25	11/09/23	S	G											x
75	209	19.5	19.95	11/09/23	S	G											x
76	210	0	0.2	12/09/23	S	G/B											x
77	210	0.5	0.7	12/09/23	S	G/B				x							
78	210	1	1.21	12/09/23	S	G											x
79	210	2	2.2	12/09/23	S	G/B	x										
80	210	2.5	2.95	12/09/23	S	G/B											x
81	210	3.5	3.7	12/09/23	S	G/B		x									
82	210	4	4.2	12/09/23	S	G/B		x				x					
83	210	5.5	5.8	12/09/23	S	G						x	x				
84	210	5.8	5.95	12/09/23	S	G											x
85	210	7	7.45	12/09/23	S	G											x
86	210	8.5	8.95	12/09/23	S	G						x	x				

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:**	Banksmeadow	**To:**	Envirolab Servi
Project Manager:	David Holden			**Dispatch date:**	

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
87	210	9.5	9.95	12/09/23	S	G											x
88	210	10.5	10.8	12/09/23	S	G											x
89	210	11.5	11.95	12/09/23	S	G											x
90	210	12.5	12.8	12/09/23	S	G											x
91	210	13.6	13.6	12/09/23	S	G						x	x			x	
92	210	13.6	13.95	12/09/23	S	G											x
93	210	14.5	14.73	12/09/23	S	G											x
94	210	15.5	15.72	12/09/23	S	G											x
95	210	16.5	16.77	12/09/23	S	G											x
96	210	18	18.2	12/09/23	S	G											x
97	210	18.2	18.41	12/09/23	S	G											x
98	210	19.5	19.74	12/09/23	S	G											x
99	BD1/20230908		-	8/09/23	S	G					x						
100	BD2/20230908		-	8/09/23	S	G								x			
101	BD3/20230908		-	8/09/23	S	G							x				
102	BD4/20230908		-	8/09/23	S	G					x						
103	BD1/20230912		-	12/09/23	S	G											x
104	BD2/20230912		-	12/09/23	S	G											x
105	BD3/20230912		-	12/09/23	S	G											x

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Servi
Project Manager:	David Holden		**Dispatch date:**

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass B -Bag	Combo 7AN	Combo 3AN	Combo 5	Combo 4AN	Combo 4	pH, anions, cations, EC	Combo 3	TRH/BTEX	VOC	TPH (silica gel)	Hold
106	BD4/20230912		-	12/09/23	S	G							x				
107	Trip Spike/20230908		-	8/09/23	S	G								x			
108	Trip Blank/20230908		-	8/09/23	S	G								x			
109	209/PACM4	2		11/09/23	M	B											

AMB 10

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CERTIFICATE OF ANALYSIS 333010-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.02, Banksmeadow**
Number of Samples	Additional analyses
Date samples received	13/09/2023
Date completed instructions received	25/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	03/10/2023
Date of Issue	06/10/2023

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Results Approved By
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Dragana Tomas, Senior Chemist
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Loren Bardwell, Development Chemist
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Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		333010-A-56	333010-A-58	333010-A-62	333010-A-84	333010-A-85
Your Reference	UNITS	209	209	209	210	210
Depth		1-1.45	2.5-2.9	5.5-5.95	5.8-5.95	7-7.45
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
TRH C_6 - C_9	mg/kg	<25	120	130	<25	<25
TRH C_6 - C_{10}	mg/kg	29	300	350	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	28	220	310	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.6	3	2	<0.5	<0.5
Ethylbenzene	mg/kg	<1	62	26	<1	<1
m+p-xylene	mg/kg	<2	15	8	<2	<2
o-Xylene	mg/kg	<1	4	2	<1	<1
Naphthalene	mg/kg	<1	4	10	<1	<1
Total +ve Xylenes	mg/kg	<1	19	10	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	84	90	86	101

svTRH (C10-C40) in Soil						
Our Reference		333010-A-56	333010-A-58	333010-A-62	333010-A-84	333010-A-85
Your Reference	UNITS	209	209	209	210	210
Depth		1-1.45	2.5-2.9	5.5-5.95	5.8-5.95	7-7.45
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
TRH C_{10} - C_{14}	mg/kg	97	870	710	<50	<50
TRH C_{15} - C_{28}	mg/kg	480	1,800	1,500	<100	<100
TRH C_{29} - C_{36}	mg/kg	220	920	270	<100	<100
Total +ve TRH (C10-C36)	mg/kg	800	3,600	2,500	<50	<50
TRH >C_{10} -C_{16}	mg/kg	110	830	580	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	110	830	570	<50	<50
TRH >C_{16} -C_{34}	mg/kg	630	2,300	1,600	<100	<100
TRH >C_{34} -C_{40}	mg/kg	160	490	140	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	900	3,600	2,300	<50	<50
Surrogate o-Terphenyl	%	100	#	128	87	91

sTPH in Soil (C10-C40)-Silica						
Our Reference		333010-A-55	333010-A-56	333010-A-58	333010-A-59	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		0.5-0.7	1-1.45	2.5-2.9	3.5-3.7	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
TPH C_{10} - C_{14}	mg/kg	77	<50	320	180	400
TPH C_{15} - C_{28}	mg/kg	210	180	340	330	940
TPH C_{29} - C_{36}	mg/kg	120	<100	270	<100	130
TPH >C_{10} -C_{16}	mg/kg	67	<50	260	180	320
TPH >C_{16} -C_{34}	mg/kg	300	250	500	380	1,000
TPH >C_{34} -C_{40}	mg/kg	<100	<100	170	<100	<100
Surrogate o-Terphenyl	%	117	111	96	87	#

sTPH in Soil (C10-C40)-Silica						
Our Reference		333010-A-63	333010-A-77	333010-A-79	333010-A-82	333010-A-83
Your Reference	UNITS	209	210	210	210	210
Depth		6.5-6.95	0.5-0.7	2-2.2	4-4.2	5.5-5.8
Date Sampled		11/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
TPH C_{10} - C_{14}	mg/kg	170	<50	<50	62	52
TPH C_{15} - C_{28}	mg/kg	260	<100	<100	250	330
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100	100	140
TPH >C_{10} -C_{16}	mg/kg	110	<50	<50	72	66
TPH >C_{16} -C_{34}	mg/kg	260	<100	<100	320	420
TPH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	89	91	94	112	111

PAHs in Soil						
Our Reference		333010-A-56	333010-A-58	333010-A-62	333010-A-84	333010-A-85
Your Reference	UNITS	209	209	209	210	210
Depth		1-1.45	2.5-2.9	5.5-5.95	5.8-5.95	7-7.45
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Naphthalene	mg/kg	0.7	3.4	13	<0.1	2.4
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.4	0.2	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.6	0.3	0.2	<0.1	<0.1
Pyrene	mg/kg	0.6	0.3	0.2	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.4	0.2	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	0.2	0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.6	0.3	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.5	0.1	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	4.6	5.0	13	<0.05	2.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	0.6	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	0.6	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.7	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	87	85	93	96

Organochlorine Pesticides in soil			
Our Reference		333010-A-83	333010-A-84
Your Reference	UNITS	210	210
Depth		5.5-5.8	5.8-5.95
Date Sampled		12/09/23	12/09/23
Type of sample		Soil	Soil
Date extracted	-	29/09/2023	27/09/2023
Date analysed	-	03/10/2023	28/09/2023
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	1.2	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	2.7	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	1.0	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	4.9	<0.1
Surrogate TCMX	%	0.78	87

Organophosphorus Pesticides in Soil		
Our Reference		333010-A-84
Your Reference	UNITS	210
Depth		5.8-5.95
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	27/09/2023
Date analysed	-	28/09/2023
Dichlorvos	mg/kg	<0.1
Mevinphos	mg/kg	<0.1
Phorate	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Disulfoton	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Parathion-Methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Fenthion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Methidathion	mg/kg	<0.1
Fenamiphos	mg/kg	<0.1
Ethion	mg/kg	<0.1
Phosalone	mg/kg	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1
Coumaphos	mg/kg	<0.1
Surrogate TCMX	%	87

Misc Soil - Inorg			
Our Reference		333010-A-83	333010-A-84
Your Reference	UNITS	210	210
Depth		5.5-5.8	5.8-5.95
Date Sampled		12/09/23	12/09/23
Type of sample		Soil	Soil
Date prepared	-	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023
Total Phenolics (as Phenol)	mg/kg	<5	<5

Acid Extractable metals in soil						
Our Reference		333010-A-56	333010-A-58	333010-A-62	333010-A-83	333010-A-84
Your Reference	UNITS	209	209	209	210	210
Depth		1-1.45	2.5-2.9	5.5-5.95	5.5-5.8	5.8-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Arsenic	mg/kg	6	7	6	<4	<4
Cadmium	mg/kg	1	2	<0.4	1	<0.4
Chromium	mg/kg	240	320	86	3,200	3
Copper	mg/kg	64	77	27	70	<1
Lead	mg/kg	1,200	1,800	240	18,000	11
Mercury	mg/kg	37	43	6.8	8.3	<0.1
Nickel	mg/kg	13	18	7	22	<1
Zinc	mg/kg	540	390	250	1,000	2

Acid Extractable metals in soil		
Our Reference		333010-A-85
Your Reference	UNITS	210
Depth		7-7.45
Date Sampled		12/09/23
Type of sample		Soil
Date prepared	-	27/09/2023
Date analysed	-	27/09/2023
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	300
Copper	mg/kg	10
Lead	mg/kg	1,700
Mercury	mg/kg	0.3
Nickel	mg/kg	3
Zinc	mg/kg	240

Moisture						
Our Reference		333010-A-56	333010-A-58	333010-A-62	333010-A-84	333010-A-85
Your Reference	UNITS	209	209	209	210	210
Depth		1-1.45	2.5-2.9	5.5-5.95	5.8-5.95	7-7.45
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Moisture	%	11	12	16	18	16

ASLP ZHE Preparation - Neutral						
Our Reference		333010-A-58	333010-A-59	333010-A-60	333010-A-61	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		2.5-2.9	3.5-3.7	4-4.45	5-5.2	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	8.9	9.4	5.5	5.6	5.6

BTEX in Zero Headspace ASLP						
Our Reference		333010-A-58	333010-A-59	333010-A-60	333010-A-61	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		2.5-2.9	3.5-3.7	4-4.45	5-5.2	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/10/2023	05/10/2023	05/10/2023	05/10/2023	05/10/2023
Date analysed	-	06/10/2023	06/10/2023	05/10/2023	05/10/2023	05/10/2023
Benzene	µg/L	<1	<1	<10	<1	<1
Toluene	µg/L	5	11	220	5	4
Ethylbenzene	µg/L	16	58	1,500	24	12
m+p-xylene	µg/L	34	70	320	6	4
o-xylene	µg/L	18	32	130	15	4
Surrogate Dibromofluoromethane	%	105	106	105	100	101
Surrogate Toluene-d8	%	112	116	107	105	105
Surrogate 4-Bromofluorobenzene	%	100	100	106	103	102

ASLP Preparation - Neutral						
Our Reference		333010-A-55	333010-A-56	333010-A-57	333010-A-59	333010-A-60
Your Reference	UNITS	209	209	209	209	209
Depth		0.5-0.7	1-1.45	2-2.2	3.5-3.7	4-4.45
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.8	6.7	6.9	10.1	7.7

ASLP Preparation - Neutral						
Our Reference		333010-A-61	333010-A-62	333010-A-77	333010-A-81	333010-A-82
Your Reference	UNITS	209	209	210	210	210
Depth		5-5.2	5.5-5.95	0.5-0.7	3.5-3.7	4-4.2
Date Sampled		11/09/23	11/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	7.7	7.0	10.3	8.5	7.2

ASLP Preparation - Neutral				
Our Reference		333010-A-83	333010-A-84	333010-A-85
Your Reference	UNITS	210	210	210
Depth		5.5-5.8	5.8-5.95	7-7.45
Date Sampled		12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil
pH of final Leachate	pH units	6.8	6.6	6.3

PAHs in Water Leach						
Our Reference		333010-A-59	333010-A-60	333010-A-61	333010-A-62	333010-A-82
Your Reference	UNITS	209	209	209	209	210
Depth		3.5-3.7	4-4.45	5-5.2	5.5-5.95	4-4.2
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/09/2023	29/09/2023	29/09/2023	29/09/2023	29/09/2023
Date analysed	-	30/09/2023	30/09/2023	30/09/2023	30/09/2023	30/09/2023
Naphthalene in ASLP	µg/L	3.5	32	34	0.44	6.1
Acenaphthylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.11
Fluorene in ASLP	µg/L	<0.1	<0.1	<0.1	0.54	0.29
Phenanthrene in ASLP	µg/L	<0.1	<0.1	<0.1	0.10	1.1
Anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.25
Fluoranthene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.65
Pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.41
Benzo(a)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.11
Chrysene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	0.19
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d_{14}	%	96	93	101	93	85

PAHs in Water Leach		
Our Reference		333010-A-83
Your Reference	UNITS	210
Depth		5.5-5.8
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	29/09/2023
Date analysed	-	30/09/2023
Naphthalene in ASLP	µg/L	1.4
Acenaphthylene in ASLP	µg/L	<0.1
Acenaphthene in ASLP	µg/L	<0.1
Fluorene in ASLP	µg/L	<0.1
Phenanthrene in ASLP	µg/L	0.65
Anthracene in ASLP	µg/L	0.31
Fluoranthene in ASLP	µg/L	<0.1
Pyrene in ASLP	µg/L	<0.1
Benzo(a)anthracene in ASLP	µg/L	<0.1
Chrysene in ASLP	µg/L	<0.1
Benzo(bjk)fluoranthene in ASLP	µg/L	<0.2
Benzo(a)pyrene in ASLP	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	<0.1
Dibenzo(a,h)anthracene in ASLP	µg/L	<0.1
Benzo(g,h,i)perylene in ASLP	µg/L	<0.1
Surrogate p-Terphenyl-d_{14}	%	87

OCP in Water Leach			
Our Reference		333010-A-57	333010-A-83
Your Reference	UNITS	209	210
Depth		2-2.2	5.5-5.8
Date Sampled		11/09/23	12/09/23
Type of sample		Soil	Soil
Date extracted	-	29/09/2023	29/09/2023
Date analysed	-	03/10/2023	03/10/2023
HCB	µg/L	<0.2	<0.2
alpha-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	0.3	<0.2
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
pp-DDD	µg/L	2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDT	µg/L	0.5	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Surrogate TCMX	%	93	76

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		333010-A-55	333010-A-56	333010-A-57	333010-A-59	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		0.5-0.7	1-1.45	2-2.2	3.5-3.7	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Arsenic	µg/L	2	2	3	11	6
Cadmium	µg/L	0.4	<0.1	0.2	0.1	0.2
Chromium	µg/L	82	36	55	38	29
Copper	µg/L	22	16	29	34	18
Lead	µg/L	230	49	160	53	76
Mercury	µg/L	6.3	1.5	7.9	6.5	1.7
Nickel	µg/L	2	1	2	3	3
Zinc	µg/L	140	17	50	15	100

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		333010-A-77	333010-A-81	333010-A-82	333010-A-83	333010-A-84
Your Reference	UNITS	210	210	210	210	210
Depth		0.5-0.7	3.5-3.7	4-4.2	5.5-5.8	5.8-5.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Arsenic	µg/L	5	7	4	10	7
Cadmium	µg/L	0.2	0.3	0.6	1	<0.1
Chromium	µg/L	40	47	420	980	3
Copper	µg/L	19	23	23	60	<1
Lead	µg/L	200	240	2,100	7,000	7
Mercury	µg/L	0.4	1.9	0.4	0.3	<0.05
Nickel	µg/L	2	4	8	16	<1
Zinc	µg/L	55	110	540	910	3

Metals from Neutral Leaching Fluid ICPMS		
Our Reference		333010-A-85
Your Reference	UNITS	210
Depth		7-7.45
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	03/10/2023
Date analysed	-	03/10/2023
Arsenic	µg/L	5
Cadmium	µg/L	<0.1
Chromium	µg/L	71
Copper	µg/L	3
Lead	µg/L	470
Mercury	µg/L	0.05
Nickel	µg/L	1
Zinc	µg/L	87

TCLP Preparation - Acid						
Our Reference		333010-A-55	333010-A-56	333010-A-57	333010-A-59	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		0.5-0.7	1-1.45	2-2.2	3.5-3.7	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.7	8.1	8.2	8.6	8.5
pH of soil TCLP (after HCl)	pH units	2.0	2.0	2.0	2.1	2.1
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.1	5.1	5.3	5.3	5.0

TCLP Preparation - Acid						
Our Reference		333010-A-77	333010-A-81	333010-A-82	333010-A-83	333010-A-84
Your Reference	UNITS	210	210	210	210	210
Depth		0.5-0.7	3.5-3.7	4-4.2	5.5-5.8	5.8-5.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	8.5	8.6	8.6	8.3	8.5
pH of soil TCLP (after HCl)	pH units	2.1	2.1	2.1	2.0	2.1
Extraction fluid used		1	1	1	1	1
pH of final Leachate	pH units	5.2	5.2	5.1	5.1	5.0

TCLP Preparation - Acid		
Our Reference		333010-A-85
Your Reference	UNITS	210
Depth		7-7.45
Date Sampled		12/09/23
Type of sample		Soil
pH of soil for fluid# determ.	pH units	8.3
pH of soil TCLP (after HCl)	pH units	2.0
Extraction fluid used		1
pH of final Leachate	pH units	5.0

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		333010-A-55	333010-A-56	333010-A-57	333010-A-59	333010-A-62
Your Reference	UNITS	209	209	209	209	209
Depth		0.5-0.7	1-1.45	2-2.2	3.5-3.7	5.5-5.95
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Chromium	mg/L	0.04	0.02	0.02	0.03	0.01
Lead	mg/L	5.4	4.2	11	4.5	0.2
Mercury	mg/L	<0.0005	<0.0005	<0.0005	0.0006	<0.0005

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		333010-A-77	333010-A-81	333010-A-82	333010-A-83	333010-A-84
Your Reference	UNITS	210	210	210	210	210
Depth		0.5-0.7	3.5-3.7	4-4.2	5.5-5.8	5.8-5.95
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Date analysed	-	03/10/2023	03/10/2023	03/10/2023	03/10/2023	03/10/2023
Arsenic	mg/L	[NA]	[NA]	[NA]	<0.05	<0.05
Chromium	mg/L	0.02	0.01	0.06	0.07	<0.01
Lead	mg/L	4.1	1.5	100	180	0.06
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	[NA]	[NA]	[NA]	0.08	[NA]

Metals from Leaching Fluid pH 2.9 or 5		
Our Reference		333010-A-85
Your Reference	UNITS	210
Depth		7-7.45
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	03/10/2023
Date analysed	-	03/10/2023
Arsenic	mg/L	<0.05
Chromium	mg/L	0.02
Lead	mg/L	6.4
Mercury	mg/L	<0.0005

PAHs in TCLP (USEPA 1311)		
Our Reference		333010-A-81
Your Reference	UNITS	210
Depth		3.5-3.7
Date Sampled		12/09/23
Type of sample		Soil
Date extracted	-	29/09/2023
Date analysed	-	30/09/2023
Naphthalene in TCLP	mg/L	0.0002
Acenaphthylene in TCLP	mg/L	<0.0001
Acenaphthene in TCLP	mg/L	<0.0001
Fluorene in TCLP	mg/L	<0.0001
Phenanthrene in TCLP	mg/L	<0.0001
Anthracene in TCLP	mg/L	<0.0001
Fluoranthene in TCLP	mg/L	<0.0001
Pyrene in TCLP	mg/L	<0.0001
Benzo(a)anthracene in TCLP	mg/L	<0.0001
Chrysene in TCLP	mg/L	<0.0001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.0002
Benzo(a)pyrene in TCLP	mg/L	<0.0001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.0001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.0001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.0001
Total +ve PAH's	mg/L	0.0002
Surrogate p-Terphenyl-d14	%	91

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-021	Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).

Method ID	Methodology Summary
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-022/025 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	333010-A-84
Date extracted	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	27/09/2023
Date analysed	-			28/09/2023	[NT]	[NT]	[NT]	[NT]	28/09/2023	28/09/2023
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	97	90
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	97	90
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	100	93
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	97	89
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	89
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	97	90
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	91
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	97	86

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	333010-A-84
Date extracted	-			27/09/2023	84	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Date analysed	-			28/09/2023	84	28/09/2023	28/09/2023		28/09/2023	28/09/2023
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	84	<50	<50	0	119	119
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	84	<100	<100	0	104	125
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	84	<100	<100	0	86	74
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	84	<50	<50	0	119	119
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	84	<100	<100	0	104	125
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	84	<100	<100	0	86	74
Surrogate o-Terphenyl	%		Org-020	89	84	87	82	6	91	109

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date extracted	-			27/09/2023	55	27/09/2023	27/09/2023		27/09/2023	[NT]
Date analysed	-			03/10/2023	55	03/10/2023	03/10/2023		03/10/2023	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	55	77	87	12	81	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	55	210	230	9	83	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	55	120	130	8	71	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	55	67	71	6	81	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	55	300	330	10	83	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	55	<100	<100	0	71	[NT]
Surrogate o-Terphenyl	%		Org-020	74	55	117	113	3	90	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	333010-A-84
Date extracted	-			27/09/2023	84	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Date analysed	-			28/09/2023	84	28/09/2023	28/09/2023		27/09/2023	28/09/2023
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	105	92
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	99	97
Fluorene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	97	93
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	108	90
Anthracene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	106	96
Pyrene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	103	95
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	101	81
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	84	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	84	<0.05	<0.05	0	106	88
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	94	84	93	98	5	108	88

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	28/09/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	95	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	333010-A-84
Date extracted	-			27/09/2023	84	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Date analysed	-			28/09/2023	84	28/09/2023	28/09/2023		28/09/2023	28/09/2023
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	102	102
HCB	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	96	94
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	83	79
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	103	97
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	98	100
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	103	98
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	108	96
Endrin	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	92	82
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	68	71
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	120	120
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	90	84	87	89	2	92	92

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	333010-A-84
Date extracted	-			27/09/2023	84	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Date analysed	-			28/09/2023	84	28/09/2023	28/09/2023		28/09/2023	28/09/2023
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	113	127
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	95	95
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	105	134
Malathion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	112	136
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	96	100
Fenthion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	97	117
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	86	99
Phosalone	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	90	84	87	89	2	92	92

QUALITY CONTROL: Misc Soil - Inorg					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Date analysed	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	333010-A-84
Date prepared	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	27/09/2023
Date analysed	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	27/09/2023
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	96	96
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	95	89
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	92	90
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	87	88
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	94
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	101	103
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	92
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	93

QUALITY CONTROL: BTEX in Zero Headspace ASLP						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			05/10/2023	[NT]	[NT]	[NT]	[NT]	05/10/2023	[NT]
Date analysed	-			06/10/2023	[NT]	[NT]	[NT]	[NT]	05/10/2023	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	111	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Surrogate Dibromofluoromethane	%		Org-023	107	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	107	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: BTEX in Zero Headspace ASLP						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	05/10/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	06/10/2023	[NT]
Benzene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	104	[NT]
Ethylbenzene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
m+p-xylene	µg/L	2	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-xylene	µg/L	1	Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Dibromofluoromethane	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate Toluene-d8	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: PAHs in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
Date analysed	-			30/09/2023	[NT]	[NT]	[NT]	[NT]	30/09/2023	[NT]
Naphthalene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Acenaphthylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Fluorene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Phenanthrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(a)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzo(bjk)fluoranthene in ASLP	µg/L	0.2	Org-022/025 ASLP	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	124	[NT]
Indeno(1,2,3-c,d)pyrene - ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in ASLP	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025 ASLP	89	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: OCP in Water Leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
Date analysed	-			03/10/2023	[NT]	[NT]	[NT]	[NT]	03/10/2023	[NT]
HCB	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
alpha-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
gamma-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	101	[NT]
Heptachlor	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
delta-BHC	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	74	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	107	[NT]
Dieldrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	123	[NT]
Endrin	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	95	[NT]
pp-DDD	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endosulfan II	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endrin Aldehyde	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-021	<0.2	[NT]	[NT]	[NT]	[NT]	129	[NT]
Methoxychlor	µg/L	0.2	SEO-005	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	95	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333010-A-62
Date extracted	-			03/10/2023	83	03/10/2023	03/10/2023		03/10/2023	03/10/2023
Date analysed	-			03/10/2023	83	03/10/2023	03/10/2023		03/10/2023	03/10/2023
Arsenic	µg/L	1	Metals-022	<1	83	10	9	11	120	116
Cadmium	µg/L	0.1	Metals-022	<0.1	83	1	0.9	11	115	109
Chromium	µg/L	1	Metals-022	<1	83	980	1200	20	111	120
Copper	µg/L	1	Metals-022	<1	83	60	51	16	112	114
Lead	µg/L	1	Metals-022	<1	83	7000	6100	14	109	128
Mercury	µg/L	0.05	Metals-021	<0.05	83	0.3	0.4	29	89	91
Nickel	µg/L	1	Metals-022	<1	83	16	14	13	110	110
Zinc	µg/L	1	Metals-022	<1	83	910	850	7	108	125

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333010-A-56
Date extracted	-			03/10/2023	55	03/10/2023	03/10/2023		03/10/2023	03/10/2023
Date analysed	-			03/10/2023	55	03/10/2023	03/10/2023		03/10/2023	03/10/2023
Arsenic	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	109	116
Cadmium	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	96	100
Chromium	mg/L	0.01	Metals-020	<0.01	55	0.04	0.04	0	94	102
Copper	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	101	111
Lead	mg/L	0.03	Metals-020	<0.03	55	5.4	5.3	2	94	117
Mercury	mg/L	0.0005	Metals-021	<0.0005	55	<0.0005	<0.0005	0	94	96
Nickel	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	94	99
Zinc	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	95	95

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
Date analysed	-			30/09/2023	[NT]	[NT]	[NT]	[NT]	30/09/2023	[NT]
Naphthalene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	89	[NT]
Acenaphthylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	85	[NT]
Fluorene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	86	[NT]
Phenanthrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	91	[NT]
Anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	92	[NT]
Pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.0002	Org-022/025	<0.0002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	124	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.0001	Org-022/025	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	89	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

sTPH in Soil (C10-C40)-Silica - Analysis was not performed on samples 333010-A-84 and 85 as the TRH Soil C10-C40 NEPM results was less than the limit of reporting.

Zero headspace analysis for 333010-A-60,61,62 conducted by Envirolab Services Melbourne. Report no. 39957

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.02, Banksmeadow
Envirolab Reference	333010-A
Date Sample Received	13/09/2023
Date Instructions Received	25/09/2023
Date Results Expected to be Reported	03/10/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analyses
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
201-0.16-0.2																										✓
201-0.4-0.5																										✓
201-0.9-1																										✓
201-1-1.45																										✓
201-1.9-2																										✓
201-2.5-2.95																										✓
201-4-4.45																										✓
201-5.5-5.95																										✓
201-6.5-6.95																										✓
201-8-8.4																										✓
201-9.5-9.75																										✓
201-11-11.45																										✓
201-12-12.3																										✓
201-13-13.3																										✓
201-14-14.45																										✓
201-15-15.25																										✓
205-0.25-0.3																										✓
205-0.5-0.6																										✓
205-0.9-1																										✓
205-1-1.45																										✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
205-2.5-2.95																										✓
205-4-4.45																										✓
205-5.5-5.95																										✓
205-6.5-6.8																										✓
205-8-8.3																										✓
205-9-9.3																										✓
205-10-10.45																										✓
205-11-11.3																										✓
205-12-12.3																										✓
205-13-13.45																										✓
205-15-15.45																										✓
205-16-16.45																										✓
205-17-17.45																										✓
205-18.5-18.8																										✓
206-0.15-0.25																										✓
206-0.5-0.7																										✓
206-1-1.45																										✓
206-1.5-1.7																										✓
206-2-2.2																										✓
206-2.5-2.95																										✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
206-4-4.45																										✓
206-5-5.2																										✓
206-5.5-5.95																										✓
206-6.5-6.95																										✓
206-8-8.35																										✓
206-9.5-9.8																										✓
206-11-11.45																										✓
206-12.5-12.73																										✓
206-14-14.45																										✓
206-15-15.45																										✓
206-16.5-16.95																										✓
206-18-18.3																										✓
206-19.5-19.88																										✓
209-0-0.2																										✓
209-0.5-0.7	✓	✓										✓			✓	✓			✓		✓	✓				
209-1-1.45	✓	✓	✓	✓	✓				✓			✓			✓	✓			✓		✓	✓				
209-2-2.2												✓		✓	✓	✓			✓		✓	✓				
209-2.5-2.9	✓	✓	✓	✓	✓				✓	✓	✓															
209-3.5-3.7	✓	✓								✓	✓	✓	✓		✓	✓			✓		✓	✓				
209-4-4.45										✓	✓	✓	✓													

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
209-5-5.2										✓	✓	✓	✓													
209-5.5-5.95	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓		✓	✓			✓		✓	✓				
209-6.5-6.95	✓	✓																								
209-8-8.3																										✓
209-9-9.45																										✓
209-10-10.45																										✓
209-11-11.3																										✓
209-12-12.45																										✓
209-13-13.45																										✓
209-14-14.3																										✓
209-15-15.2																										✓
209-15.2-15.45																										✓
209-16.5-16.73																										✓
209-18-18.25																										✓
209-19.5-19.95																										✓
210-0-0.2																										✓
210-0.5-0.7	✓	✓										✓			✓	✓			✓		✓	✓				
210-1-1.21																										✓
210-2-2.2	✓	✓																								
210-2.5-2.95																										✓

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Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
210-3.5-3.7												✓			✓	✓			✓		✓	✓			✓	
210-4-4.2	✓	✓										✓	✓		✓	✓			✓		✓	✓				
210-5.5-5.8	✓	✓				✓		✓	✓			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓			
210-5.8-5.95	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓		✓		✓	✓				
210-7-7.45	✓	✓	✓	✓	✓				✓			✓			✓	✓	✓		✓		✓	✓				
210-8.5-8.95																										✓
210-9.5-9.95																										✓
210-10.5-10.8																										✓
210-11.5-11.95																										✓
210-12.5-12.8																										✓
210-13.6-13.6																										✓
210-13.6-13.95																										✓
210-14.5-14.73																										✓
210-15.5-15.72																										✓
210-16.5-16.77																										✓
210-18-18.2																										✓
210-18.2-18.41																										✓
210-19.5-19.74																										✓
BD1/20230908																										✓
BD2/20230908																										✓

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customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	svTRH (C10-C40) in Soil Pre Clean Up	sTPH in Soil (C10-C40)-Silica	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	ASLP ZHE Preparation - Neutral	BTEX in Zero Headspace ASLP	ASLP Preparation - Neutral	PAHs in Water Leach	OCP in Water Leach	Metals from Neutral Leaching Fluid ICPMS	TCLP Preparation - Acid	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	PAHs in TCLP (USEPA 1311)	On Hold
BD3/20230908																										✓
BD4/20230908																										✓
BD1/20230912																										✓
BD2/20230912																										✓
BD3/20230912																										✓
BD4/20230912																										✓
Trip Spike/20230908																										✓
Trip Blank/20230908																										✓
209/PACM4																										✓
206 - [TRIPLICATE]-0.15-0.25																										✓
210 - [TRIPLICATE]-2-2.2																										✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS

Work Order	: **ES2328374**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 22-Aug-2023 14:45
Order number	: ----	Date Analysis Commenced	: 28-Aug-2023
C-O-C number	: ----	Issue Date	: 30-Aug-2023 12:50
Sampler	: Patrick Johansson		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230817	BD2/20230817	BD3/20230817	----	----
			Sampling date / time	17-Aug-2023 00:00	17-Aug-2023 00:00	17-Aug-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2328374-002	ES2328374-003	ES2328374-004	-------	--------
				Result	Result	Result	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	---	----	3.3	----	---
Moisture Content	----	1.0	%	17.7	13.3	----	----	---
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	----	----	---
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	---
Chromium	7440-47-3	2	mg/kg	<2	<2	----	----	---
Copper	7440-50-8	5	mg/kg	<5	<5	----	----	---
Lead	7439-92-1	5	mg/kg	<5	<5	----	----	---
Nickel	7440-02-0	2	mg/kg	<2	<2	----	----	---
Zinc	7440-66-6	5	mg/kg	<5	<5	----	----	---
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	---
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	----	---
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	----	---
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	----	---
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	----	---
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	----	---
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	----	---
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	----	---
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	----	---
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	----	---
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	----	----	---
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	----	---
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	----	---
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	----	---
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	----	----	---
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	----	----	---
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	----	---
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	----	----	---
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	----	----	---
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	----	----	---
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230817	BD2/20230817	BD3/20230817	----	----
			Sampling date / time	17-Aug-2023 00:00	17-Aug-2023 00:00	17-Aug-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2328374-002	ES2328374-003	ES2328374-004	-------	--------
				Result	Result	Result	---	---
EP080/071: Total Petroleum Hydrocarbons - Continued								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	---
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	---
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	---
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	---
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	---
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	---
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	---
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	---
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	---
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	---
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	---
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	---
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	---
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	---
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**66.7**	**67.5**	----	----	---
2-Chlorophenol-D4	93951-73-6	0.5	%	**77.1**	**78.8**	----	----	---
2.4.6-Tribromophenol	118-79-6	0.5	%	**74.4**	**73.2**	----	----	---
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**99.0**	**97.7**	----	----	---
Anthracene-d10	1719-06-8	0.5	%	**93.6**	**95.6**	----	----	---
4-Terphenyl-d14	1718-51-0	0.5	%	**110**	**115**	----	----	---
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**82.4**	**91.5**	**91.8**	----	---

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230817	BD2/20230817	BD3/20230817	----	----
			Sampling date / time	17-Aug-2023 00:00	17-Aug-2023 00:00	17-Aug-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2328374-002	ES2328374-003	ES2328374-004	--------	--------
				Result	Result	Result	---	---
EP080S: TPH(V)/BTEX Surrogates - Continued								
Toluene-D8	2037-26-5	0.2	%	**88.8**	**90.8**	**94.5**	**----**	**----**
4-Bromofluorobenzene	460-00-4	0.2	%	**95.9**	**91.7**	**102**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2328374**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 22-Aug-2023
Order number	: ----	Date Analysis Commenced	: 28-Aug-2023
C-O-C number	: ----	Issue Date	: 30-Aug-2023
Sampler	: Patrick Johansson		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5261881)									
ES2328192-001	Anonymous	EG005T: Copper	7440-50-8	5	mg/kg	<5	5	0.0	No Limit
ES2328192-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	2	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	76	74	2.5	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	3	5	61.8	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	10	15	43.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	15	16	8.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	8	44.4	No Limit
ES2328452-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	4	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	<5	30.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	19	7	95.3	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	42	55	27.5	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5261888)									
ES2328374-002	BD1/20230817	EA055: Moisture Content	----	0.1	%	17.7	17.7	0.0	0% - 50%
ES2328469-001	Anonymous	EA055: Moisture Content	----	0.1	%	21.4	19.3	10.4	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5262616)									
ES2326986-035	Anonymous	EA055: Moisture Content	----	0.1	%	<1.0	<1.0	0.0	No Limit
ES2329011-005	Anonymous	EA055: Moisture Content	----	0.1	%	8.0	8.6	6.4	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5261882)									
ES2328192-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2328452-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5258112)									
ES2328374-002	BD1/20230817	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2328411-009	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5258111)									
ES2328374-002	BD1/20230817	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2328411-009	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5261607)									
ES2328374-002	BD1/20230817	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2328940-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5258111)									
ES2328374-002	BD1/20230817	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2328411-009	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5261607)									
ES2328374-002	BD1/20230817	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2328940-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 5261607)									
ES2328374-002	BD1/20230817	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2328940-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5261881)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	103	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	130	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	132	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	111	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	117	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	116	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	110	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5261882)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	124	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5258112)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	95.2	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	90.5	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	100.0	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	97.0	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	100	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	97.4	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	99.6	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	102	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	94.4	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	103	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	97.2	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	102	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	99.1	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	110	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	107	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	117	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5258111)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	102	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	112	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	114	71.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5261607)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	74.4	72.2	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5258111)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	113	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	110	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	113	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5261607)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	72.5	72.4	133
EP080: BTEXN (QCLot: 5261607)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	86.0	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	113	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	102	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	106	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	102	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	98.6	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5261881)							
ES2328192-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	77.7	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	96.8	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	105	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	95.5	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	98.3	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	97.3	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5261882)							
ES2328192-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	97.1	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5258112)							
ES2328374-002	BD1/20230817	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	106	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	109	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5258111)							
ES2328374-002	BD1/20230817	EP071: C10 - C14 Fraction	----	480 mg/kg	112	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	116	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	115	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5261607)							
ES2328374-002	BD1/20230817	EP080: C6 - C9 Fraction	----	32.5 mg/kg	67.6	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5258111)							
ES2328374-002	BD1/20230817	EP071: >C10 - C16 Fraction	----	860 mg/kg	106	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	117	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	116	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5261607)							
ES2328374-002	BD1/20230817	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	66.2	61.1	142
EP080: BTEXN (QCLot: 5261607)							
ES2328374-002	BD1/20230817	EP080: Benzene	71-43-2	2.5 mg/kg	74.4	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	97.9	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	92.2	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	95.0	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	96.7	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	103	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2328374**	Page	: 1 of 4
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 22-Aug-2023
Site	: ----	Issue Date	: 30-Aug-2023
Sampler	: Patrick Johansson	No. of samples received	: 4
Order number	: ----	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
BD1/20230817, BD2/20230817, BD3/20230817	**17-Aug-2023**	**----**	----	----	**28-Aug-2023**	31-Aug-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
BD1/20230817, BD2/20230817	**17-Aug-2023**	**28-Aug-2023**	13-Feb-2024	✓	**28-Aug-2023**	13-Feb-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
BD1/20230817, BD2/20230817	**17-Aug-2023**	**28-Aug-2023**	14-Sep-2023	✓	**29-Aug-2023**	14-Sep-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
BD1/20230817, BD2/20230817	**17-Aug-2023**	**28-Aug-2023**	31-Aug-2023	✓	**29-Aug-2023**	07-Oct-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
BD1/20230817, BD2/20230817, BD3/20230817	**17-Aug-2023**	**28-Aug-2023**	31-Aug-2023	✓	**29-Aug-2023**	31-Aug-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
BD1/20230817, BD2/20230817, BD3/20230817	**17-Aug-2023**	**28-Aug-2023**	31-Aug-2023	✓	**29-Aug-2023**	31-Aug-2023	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
BD1/20230817, BD2/20230817, BD3/20230817	**17-Aug-2023**	**28-Aug-2023**	31-Aug-2023	✓	**29-Aug-2023**	31-Aug-2023	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	4	36	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	20	**15.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	20	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2328374**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: Patrick Johansson		

Dates

Date Samples Received	: 22-Aug-2023 14:45	Issue Date	: 23-Aug-2023
Client Requested Due Date	: 29-Aug-2023	Scheduled Reporting Date	: **29-Aug-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 7.8'C, 8.3'C, 6.9'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 3 / 3
		No. of samples NOT collected	1

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Sample BD1/20230815 was not received due to the following reason: Sample has not been received in transit
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - S-04 TRH/BTEXN	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2328374-002	17-Aug-2023 00:00	BD1/20230817	✓		✓
ES2328374-003	17-Aug-2023 00:00	BD2/20230817	✓		✓
ES2328374-004	17-Aug-2023 00:00	BD3/20230817	✓	✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envir
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 3	TRH/BTEX											Notes/ Preservation/ Additional Requirements
NR	BD1/20230815	-	-	15-08-23	S	J		x											Please forward for interlab anlaysis
	BD1/20230817	-	-	17-08-23	S	J	x												Please forward for interlab anlaysis
	BD2/20230817	-	-	17-08-23	S	J	x												Please forward for interlab anlaysis
	BD3/20230817	-	-	17-08-23	S	J		x											Please forward for interlab anlaysis

Environmental Division
Sydney
Work Order Reference
ES2328374

Telephone : +61-2-8784 8555

Rec: Fmo 22/8/23 2:45

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:	4	**Transported to laboratory by:**	DP	**Lab Ref. No:**
Send results to:	Douglas Partners Pty Ltd			**Received by:**
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**
Relinquished by:	Nathan Woodward 2:30pm, 18/8/23	**Date:**	18-08-23 **Signed:**	**Signed:**

Relinquished by: Christine Ho
ELS SYD 1130
22/8/23

330992
21/8/23

CERTIFICATE OF ANALYSIS

Work Order	: **ES2329270**	Page	: 1 of 10
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 29-Aug-2023 15:00
Order number	: ----	Date Analysis Commenced	: 04-Sep-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023 07:30
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 10		
No. of samples analysed	: 10		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP080: The result for sample ES2329270-005 was confirmed by re-analysis.
- EP080: Samples not received in a suitable time frame to conduct the analysis within the recommended holding time.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230818	BD2/20230818	BD3/20230818	BD2/20230821	BD1/20230822
			Sampling date / time	18-Aug-2023 00:00	18-Aug-2023 00:00	18-Aug-2023 00:00	21-Aug-2023 00:00	22-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2329270-001	ES2329270-002	ES2329270-003	ES2329270-004	ES2329270-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	----	----	13.4	----	----
Moisture Content	----	1.0	%	4.0	6.9	----	4.0	10.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	----	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	<1	<1
Chromium	7440-47-3	2	mg/kg	<2	<2	----	<2	<2
Copper	7440-50-8	5	mg/kg	<5	<5	----	<5	<5
Lead	7439-92-1	5	mg/kg	<5	<5	----	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	<2	----	<2	<2
Zinc	7440-66-6	5	mg/kg	6	6	----	<5	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	<0.1	<0.1
EP035SF: Total Phenol by Segmented Flow Analyser								
Phenols (Total)	----	1	mg/kg	----	----	----	----	<1
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	<0.1	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.05	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.05	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.05	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.05	----
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.05	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.05	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.05	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.05	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.05	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.05	----
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.05	----
4.4`-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.05	----
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.05	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.05	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	----	<0.05	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230818	BD2/20230818	BD3/20230818	BD2/20230821	BD1/20230822
			Sampling date / time	18-Aug-2023 00:00	18-Aug-2023 00:00	18-Aug-2023 00:00	21-Aug-2023 00:00	22-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2329270-001	ES2329270-002	ES2329270-003	ES2329270-004	ES2329270-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.05	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.05	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.05	----
4.4`-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.2	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.05	----
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.2	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	----	<0.05	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-29-2	0.05	mg/kg	----	----	----	<0.05	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	----	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	----	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	**27**
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	**220**
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BD1/20230818	BD2/20230818	BD3/20230818	BD2/20230821	BD1/20230822
				Sampling date / time	18-Aug-2023 00:00	18-Aug-2023 00:00	18-Aug-2023 00:00	21-Aug-2023 00:00	22-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		ES2329270-001	ES2329270-002	ES2329270-003	ES2329270-004	ES2329270-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	220
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	116
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	116
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	150
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	150
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	150
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	102	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	----	----	114	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	----	----	72.7	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		79.2	84.4	----	83.9	88.0
2-Chlorophenol-D4	93951-73-6	0.5	%		78.4	81.1	----	80.5	83.8
2.4.6-Tribromophenol	118-79-6	0.5	%		48.7	57.8	----	60.2	61.7
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		89.0	90.4	----	89.1	90.7
Anthracene-d10	1719-06-8	0.5	%		99.0	102	----	101	100

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BD1/20230818	BD2/20230818	BD3/20230818	BD2/20230821	BD1/20230822
				Sampling date / time	18-Aug-2023 00:00	18-Aug-2023 00:00	18-Aug-2023 00:00	21-Aug-2023 00:00	22-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		ES2329270-001	ES2329270-002	ES2329270-003	ES2329270-004	ES2329270-005
					Result	Result	Result	Result	Result
EP075(SIM)T: PAH Surrogates - Continued									
4-Terphenyl-d14	1718-51-0	0.5	%		**105**	**107**	**----**	**107**	**101**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**102**	**93.4**	**97.6**	**105**	**94.2**
Toluene-D8	2037-26-5	0.2	%		**114**	**101**	**103**	**84.8**	**100**
4-Bromofluorobenzene	460-00-4	0.2	%		**120**	**110**	**110**	**88.5**	**109**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230824	BD2/20230824	BD3/20230824	BD4/20230824	BD5/20230824
			Sampling date / time	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2329270-006	ES2329270-007	ES2329270-008	ES2329270-009	ES2329270-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**----**	**19.2**	**5.0**	**----**	**----**
Moisture Content	----	1.0	%	**17.6**	**----**	**----**	**16.2**	**13.8**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	----	----	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	----	----	<1	<1
Chromium	7440-47-3	2	mg/kg	**3**	----	----	<2	**2**
Copper	7440-50-8	5	mg/kg	<5	----	----	<5	<5
Lead	7439-92-1	5	mg/kg	<5	----	----	<5	<5
Nickel	7440-02-0	2	mg/kg	<2	----	----	<2	<2
Zinc	7440-66-6	5	mg/kg	<5	----	----	<5	<5
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	<0.1	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230824	BD2/20230824	BD3/20230824	BD4/20230824	BD5/20230824
			Sampling date / time	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00
Compound	CAS Number	LOR	Unit	ES2329270-006	ES2329270-007	ES2329270-008	ES2329270-009	ES2329270-010
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**85.0**	----	----	**83.9**	**80.7**
2-Chlorophenol-D4	93951-73-6	0.5	%	**81.5**	----	----	**80.2**	**77.1**
2.4.6-Tribromophenol	118-79-6	0.5	%	**61.5**	----	----	**59.5**	**55.6**
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**89.6**	----	----	**88.8**	**85.5**
Anthracene-d10	1719-06-8	0.5	%	**102**	----	----	**101**	**97.2**
4-Terphenyl-d14	1718-51-0	0.5	%	**109**	----	----	**106**	**102**
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**88.5**	**88.1**	**108**	**99.6**	**105**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BD1/20230824	BD2/20230824	BD3/20230824	BD4/20230824	BD5/20230824
				Sampling date / time	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00	24-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		ES2329270-006	ES2329270-007	ES2329270-008	ES2329270-009	ES2329270-010
					Result	Result	Result	Result	Result
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	0.2	%		**95.4**	**86.1**	**110**	**101**	**107**
4-Bromofluorobenzene	460-00-4	0.2	%		**108**	**98.3**	**117**	**110**	**114**

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2329270**	Page	: 1 of 10
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 29-Aug-2023
Order number	: ----	Date Analysis Commenced	: 04-Sep-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 10		
No. of samples analysed	: 10		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5275250)									
ES2329150-006	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	14	15	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	3	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5280579)									
ES2329270-001	BD1/20230818	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	6	6	0.0	No Limit
ES2329544-005	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	29	28	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	8	8	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	8	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	11	11	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	24	20	16.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	20	17	13.6	No Limit
EP035SF: Total Phenol by Segmented Flow Analyser (QC Lot: 5276920)									
EP2311905-001	Anonymous	EP035SF: Phenols (Total)	----	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5275253)									
ES2329805-001	Anonymous	EA055: Moisture Content	----	0.1	%	18.0	17.6	2.2	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5276923)									
ES2329605-001	Anonymous	EA055: Moisture Content	----	0.1	%	5.3	5.6	3.8	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5280582)									
ES2329129-003	Anonymous	EA055: Moisture Content	----	0.1	%	59.6	59.7	0.0	0% - 20%
ES2329544-001	Anonymous	EA055: Moisture Content	----	0.1	%	10.1	9.9	2.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5281027)									
ES2329270-008	BD3/20230824	EA055: Moisture Content	----	0.1	%	5.0	5.6	10.5	0% - 20%
ES2329844-004	Anonymous	EA055: Moisture Content	----	0.1	%	14.9	13.5	9.4	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5275251)									
ES2329150-006	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5280578)									
ES2329270-005	BD1/20230822	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2329129-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 5276906)									
ES2329270-004	BD2/20230821	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5276907)									
ES2329270-004	BD2/20230821	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5276905)									
ES2329270-004	BD2/20230821	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5275958)									
ES2329507-009	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2329507-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5276557)									
ES2329270-001	BD1/20230818	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2329506-003	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5276904)									
ES2329270-004	BD2/20230821	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5275958)									
ES2329507-009	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2329507-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5276557)									
ES2329270-001	BD1/20230818	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2329506-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5276904)									
ES2329270-004	BD2/20230821	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5276904) - continued									
ES2329270-004	BD2/20230821	EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 5275958)									
ES2329507-009	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2329507-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP080: BTEXN (QC Lot: 5276557)									
ES2329270-001	BD1/20230818	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2329506-003	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5275250)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	113	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	97.5	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	117	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	111	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	107	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	104	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	97.9	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5280579)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	103	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	97.0	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	110	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	110	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	103	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	102	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	94.6	66.0	133
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5276920)								
EP035SF: Phenols (Total)	----	1	mg/kg	<1	20 mg/kg	97.6	79.9	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5275251)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	92.5	70.0	125
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5280578)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	113	70.0	125
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5276906)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	83.0	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 5276907)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	81.3	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	69.3	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	98.1	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.6	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.3	67.0	115

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report		
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5276907) - continued								
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	81.2	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	76.2	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	74.4	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	75.0	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	75.8	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	76.3	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	76.7	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.0	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	77.4	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	78.5	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	88.9	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	87.7	54.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5276905)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	91.3	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	87.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	93.0	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	88.4	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	94.8	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	95.7	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	92.8	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	92.9	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	85.7	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	94.7	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.8	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	97.3	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	86.7	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	99.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	98.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	102	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5275958)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5275958) - continued								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	93.1	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5276557)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	97.3	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5276904)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	87.5	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	96.5	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	107	71.0	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5275958)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	95.7	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5276557)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	97.5	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5276904)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	99.8	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	98.0	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	118	63.0	131
EP080: BTEXN (QCLot: 5275958)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	103	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	104	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	108	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	102	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	108	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	104	78.8	122
EP080: BTEXN (QCLot: 5276557)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	97.8	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	99.3	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	105	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	107	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	106	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	88.7	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5275250)							
ES2329150-006	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	94.6	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	103	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	110	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	102	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	103	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	103	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	104	66.0	133
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5280579)							
ES2329270-001	BD1/20230818	EG005T: Arsenic	7440-38-2	50 mg/kg	108	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	106	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	106	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	103	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	106	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	106	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	106	66.0	133
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5276920)							
EP2311905-001	Anonymous	EP035SF: Phenols (Total)	----	20 mg/kg	118	76.0	131
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5275251)							
ES2329150-006	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	102	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5280578)							
ES2329129-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	99.9	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5276906)							
ES2329270-004	BD2/20230821	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	77.7	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5276907)							
ES2329270-004	BD2/20230821	EP068: gamma-BHC	58-89-9	0.5 mg/kg	81.0	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	104	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	71.4	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	97.1	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	102	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	119	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5276905)							
ES2329270-004	BD2/20230821	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	94.0	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	96.1	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5275958)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5275958) - continued							
ES2329507-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	102	60.4	142
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5276557)							
ES2329270-001	BD1/20230818	EP080: C6 - C9 Fraction	----	32.5 mg/kg	93.6	60.4	142
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5276904)							
ES2329270-004	BD2/20230821	EP071: C10 - C14 Fraction	----	480 mg/kg	97.8	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	106	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	123	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5275958)							
ES2329507-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	104	61.1	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5276557)							
ES2329270-001	BD1/20230818	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	93.2	61.1	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5276904)							
ES2329270-004	BD2/20230821	EP071: >C10 - C16 Fraction	----	860 mg/kg	104	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	111	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	131	52.0	132
EP080: BTEXN (QCLot: 5275958)							
ES2329507-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	117	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	109	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	117	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	117	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	117	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	103	61.1	115
EP080: BTEXN (QCLot: 5276557)							
ES2329270-001	BD1/20230818	EP080: Benzene	71-43-2	2.5 mg/kg	97.7	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	96.0	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	100	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	101	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	99.9	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	65.4	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2329270**	Page	: 1 of 10
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 29-Aug-2023
Site	: ----	Issue Date	: 08-Sep-2023
Sampler	: PJ	No. of samples received	: 10
Order number	: ----	No. of samples analysed	: 10

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA055: Moisture Content (Dried @ 105-110°C)						
Soil Glass Jar - Unpreserved						
BD1/20230818, BD2/20230818, BD3/20230818	----	----	----	06-Sep-2023	01-Sep-2023	5
EP035SF: Total Phenol by Segmented Flow Analyser						
Soil Glass Jar - Unpreserved						
BD1/20230822	----	----	----	06-Sep-2023	05-Sep-2023	1
EP066: Polychlorinated Biphenyls (PCB)						
Soil Glass Jar - Unpreserved						
BD2/20230821	05-Sep-2023	04-Sep-2023	1	----	----	----
EP068A: Organochlorine Pesticides (OC)						
Soil Glass Jar - Unpreserved						
BD2/20230821	05-Sep-2023	04-Sep-2023	1	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
Soil Glass Jar - Unpreserved						
BD1/20230818, BD2/20230818	05-Sep-2023	01-Sep-2023	4	----	----	----
Soil Glass Jar - Unpreserved						
BD2/20230821	05-Sep-2023	04-Sep-2023	1	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
Soil Glass Jar - Unpreserved						
BD1/20230818, BD2/20230818, BD3/20230818	05-Sep-2023	01-Sep-2023	4	06-Sep-2023	01-Sep-2023	5
Soil Glass Jar - Unpreserved						
BD2/20230821	----	----	----	05-Sep-2023	04-Sep-2023	1
Soil Glass Jar - Unpreserved						
BD2/20230821	05-Sep-2023	04-Sep-2023	1	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Soil Glass Jar - Unpreserved						
BD1/20230818, BD2/20230818, BD3/20230818	05-Sep-2023	01-Sep-2023	4	06-Sep-2023	01-Sep-2023	5
Soil Glass Jar - Unpreserved						
BD2/20230821	----	----	----	05-Sep-2023	04-Sep-2023	1
Soil Glass Jar - Unpreserved						
BD2/20230821	05-Sep-2023	04-Sep-2023	1	----	----	----
EP080: BTEXN						
Soil Glass Jar - Unpreserved						
BD1/20230818, BD2/20230818, BD3/20230818	05-Sep-2023	01-Sep-2023	4	06-Sep-2023	01-Sep-2023	5

Matrix: **SOIL**

Method / Container / Client Sample ID(s)	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Days overdue	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Days overdue
EP080: BTEXN - Analysis Holding Time Compliance						
Soil Glass Jar - Unpreserved						
BD2/20230821	----	----	----	05-Sep-2023	04-Sep-2023	**1**

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type / Method	Count: QC	Count: Regular	Rate (%): Actual	Rate (%): Expected	Quality Control Specification
Laboratory Duplicates (DUP)					
Total Phenol By Discrete Analyser	1	14	7.14	10.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) BD1/20230818, BD2/20230818, BD3/20230818	**18-Aug-2023**	**----**	----	----	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EA055) BD2/20230821	**21-Aug-2023**	**----**	----	----	**04-Sep-2023**	04-Sep-2023	✓
Soil Glass Jar - Unpreserved (EA055) BD1/20230822	**22-Aug-2023**	**----**	----	----	**05-Sep-2023**	05-Sep-2023	✓
Soil Glass Jar - Unpreserved (EA055) BD1/20230824, BD2/20230824, BD3/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**----**	----	----	**06-Sep-2023**	07-Sep-2023	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) BD1/20230818, BD2/20230818	**18-Aug-2023**	**06-Sep-2023**	14-Feb-2024	✓	**06-Sep-2023**	14-Feb-2024	✓
Soil Glass Jar - Unpreserved (EG005T) BD2/20230821	**21-Aug-2023**	**04-Sep-2023**	17-Feb-2024	✓	**04-Sep-2023**	17-Feb-2024	✓
Soil Glass Jar - Unpreserved (EG005T) BD1/20230822	**22-Aug-2023**	**06-Sep-2023**	18-Feb-2024	✓	**06-Sep-2023**	18-Feb-2024	✓
Soil Glass Jar - Unpreserved (EG005T) BD1/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**06-Sep-2023**	20-Feb-2024	✓	**06-Sep-2023**	20-Feb-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) BD1/20230818, BD2/20230818	**18-Aug-2023**	**06-Sep-2023**	15-Sep-2023	✓	**07-Sep-2023**	15-Sep-2023	✓
Soil Glass Jar - Unpreserved (EG035T) BD2/20230821	**21-Aug-2023**	**04-Sep-2023**	18-Sep-2023	✓	**05-Sep-2023**	18-Sep-2023	✓
Soil Glass Jar - Unpreserved (EG035T) BD1/20230822	**22-Aug-2023**	**06-Sep-2023**	19-Sep-2023	✓	**07-Sep-2023**	19-Sep-2023	✓
Soil Glass Jar - Unpreserved (EG035T) BD1/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**06-Sep-2023**	21-Sep-2023	✓	**07-Sep-2023**	21-Sep-2023	✓
EP035SF: Total Phenol by Segmented Flow Analyser							
Soil Glass Jar - Unpreserved (EP035SF) BD1/20230822	**22-Aug-2023**	**05-Sep-2023**	05-Sep-2023	✓	**06-Sep-2023**	05-Sep-2023	×
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066) BD2/20230821	**21-Aug-2023**	**05-Sep-2023**	04-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) BD2/20230821	**21-Aug-2023**	**05-Sep-2023**	04-Sep-2023	×	**07-Sep-2023**	15-Oct-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) BD1/20230818, BD2/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) BD2/20230821	**21-Aug-2023**	**05-Sep-2023**	04-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) BD1/20230822	**22-Aug-2023**	**05-Sep-2023**	05-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) BD1/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**05-Sep-2023**	07-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) BD1/20230818, BD2/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD1/20230818, BD2/20230818, BD3/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD3/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP080) BD2/20230821	**21-Aug-2023**	**04-Sep-2023**	04-Sep-2023	✓	**05-Sep-2023**	04-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD2/20230821	**21-Aug-2023**	**05-Sep-2023**	04-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD1/20230822	**22-Aug-2023**	**04-Sep-2023**	05-Sep-2023	✓	**05-Sep-2023**	05-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP071) BD1/20230822	**22-Aug-2023**	**05-Sep-2023**	05-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP071) BD1/20230824, BD2/20230824, BD3/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**05-Sep-2023**	07-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) BD1/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD1/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD2/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD2/20230818, BD3/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD3/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP080) BD2/20230821	**21-Aug-2023**	**04-Sep-2023**	04-Sep-2023	✓	**05-Sep-2023**	04-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD2/20230821	**21-Aug-2023**	**05-Sep-2023**	04-Sep-2023	×	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD1/20230822	**22-Aug-2023**	**04-Sep-2023**	05-Sep-2023	✓	**05-Sep-2023**	05-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP071) BD1/20230822	**22-Aug-2023**	**05-Sep-2023**	05-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP071) BD1/20230824, BD2/20230824, BD3/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**05-Sep-2023**	07-Sep-2023	✓	**06-Sep-2023**	15-Oct-2023	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) BD1/20230818, BD2/20230818, BD3/20230818	**18-Aug-2023**	**05-Sep-2023**	01-Sep-2023	×	**06-Sep-2023**	01-Sep-2023	×
Soil Glass Jar - Unpreserved (EP080) BD2/20230821	**21-Aug-2023**	**04-Sep-2023**	04-Sep-2023	✓	**05-Sep-2023**	04-Sep-2023	×
Soil Glass Jar - Unpreserved (EP080) BD1/20230822	**22-Aug-2023**	**04-Sep-2023**	05-Sep-2023	✓	**05-Sep-2023**	05-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP080) BD1/20230824, BD2/20230824, BD3/20230824, BD4/20230824, BD5/20230824	**24-Aug-2023**	**05-Sep-2023**	07-Sep-2023	✓	**06-Sep-2023**	07-Sep-2023	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	6	51	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	3	28	**10.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	28	**10.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol By Discrete Analyser	EP035SF	1	14	**7.14**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	39	**10.26**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol By Discrete Analyser	EP035SF	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol By Discrete Analyser	EP035SF	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	7	**14.29**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	28	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol By Discrete Analyser	EP035SF	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	39	**5.13**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Total Phenol By Discrete Analyser	EP035SF	SOIL	In house: Referenced to ISO 14402. Phenols are extracted in 1M NaOH. The extract is diluted by 10 and then in-line-distilled at pH 1- 4. The distillate, containing steam-volatile phenolic compounds is then oxidised by hexacyanoferrate(III). The resulting quinones react with 4-aminoantipyrine forming red condensation products, which are measured spectrometrically in a flow spectrometer at 505 nm. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
Extraction for Total Phenols in soil	EP035-PR	SOIL	In house: Soil sub-sample is extracted in 1M NaOH by tumbling for between 6 and 16 hours. The resulting extract is diluted 10 times with reagent grade water prior to analysis.
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2329270**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: PJ		

Dates

Date Samples Received	: 29-Aug-2023 15:00	Issue Date	: 04-Sep-2023
Client Requested Due Date	: 07-Sep-2023	Scheduled Reporting Date	: **07-Sep-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 14.1'C, 13.8'C, 12.7'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 10 / 10

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - EP035SF (solids) Total Phenol by Segmented Flow Analyser	SOIL - S-04 TRH/BTEXN	SOIL - S-11 OC/PCB	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2329270-001	18-Aug-2023 00:00	BD1/20230818	✓				✓
ES2329270-002	18-Aug-2023 00:00	BD2/20230818	✓				✓
ES2329270-003	18-Aug-2023 00:00	BD3/20230818	✓		✓		
ES2329270-004	21-Aug-2023 00:00	BD2/20230821	✓			✓	✓
ES2329270-005	22-Aug-2023 00:00	BD1/20230822	✓	✓			✓
ES2329270-006	24-Aug-2023 00:00	BD1/20230824	✓				✓
ES2329270-007	24-Aug-2023 00:00	BD2/20230824	✓		✓		
ES2329270-008	24-Aug-2023 00:00	BD3/20230824	✓		✓		
ES2329270-009	24-Aug-2023 00:00	BD4/20230824	✓				✓
ES2329270-010	24-Aug-2023 00:00	BD5/20230824	✓				✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

UPDATED COC

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time: ☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day					(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage: ☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf		**Do samples contain 'potential' HBM?** ☐ No ☐ Yes		(If YES, then handle, transport and store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 3	Combo 4	Combo 5	TRH/BTEX									Notes/ Preservation/ Additional Requirements
1	BD1/20230818	-	-	18-08-23	S	J	x												Please forward for interlab anlaysis
2	BD2/20230818	-	-	18-08-23	S	J	x												Please forward for interlab anlaysis
3	BD3/20230818	-	-	18-08-23	S	J				x									Please forward for interlab anlaysis
4	BD2/20230821	-	-	21-08-23	S	J			x										Please forward for interlab anlaysis
5	BD1/20230822	-	-	22-08-23	S	J		x											Please forward for interlab anlaysis
6	BD1/20230824	-	-	24-08-23	S	J	x												Please forward for interlab anlaysis
7	BD2/20230824	-	-	24-08-23	S	J				x									Please forward for interlab anlaysis
8	BD3/20230824	-	-	24-08-23	S	J				x									Please forward for interlab anlaysis
9	BD4/20230824	-	-	24-08-23	S	J	x												Please forward for interlab anlaysis
10	BD5/20230824	-	-	24-08-23	S	J	x												Please forward for interlab anlaysis

Relinquished by:
Number of samples in container: 10 **Transported to laboratory by:** DP
Douglas Partners Pty Ltd
96 Hermitage Road, West Ryde NSW 2114 **Phone:** (02) 9809 0666
Nathan Woodward 1:30pm, 25/8/23 **Date:** 25-08-23 **Signed:**

LAB RECEIPT
Lab Ref. No:
Received by: David
Date & Time: 31/08/23 1400
Signed:

Environmental Division
Sydney
Work Order Reference
ES2329270

Telephone : + 61-2-8784 8555

CERTIFICATE OF ANALYSIS

Work Order	: **ES2329793**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 01-Sep-2023 16:13
Order number	: ----	Date Analysis Commenced	: 06-Sep-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023 17:17
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 4		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005T: Poor precision was obtained for Lead and Zinc on sample ES2329877 # 001. Confirmed by re-digestion and reanalysis.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230825	BD3/20230825	BD1/20230828	BD3/20230828	----
			Sampling date / time	25-Aug-2023 00:00	25-Aug-2023 00:00	28-Aug-2023 00:00	28-Aug-2023 00:00	---
Compound	CAS Number	LOR	Unit	ES2329793-001	ES2329793-002	ES2329793-003	ES2329793-004	--------
				Result	Result	Result	Result	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	15.8	17.2	----	15.2	---
Moisture Content	----	1.0	%	----	----	2.6	----	---
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	----	----	<5	----	---
Cadmium	7440-43-9	1	mg/kg	----	----	<1	----	---
Chromium	7440-47-3	2	mg/kg	----	----	<2	----	---
Copper	7440-50-8	5	mg/kg	----	----	<5	----	---
Lead	7439-92-1	5	mg/kg	----	----	<5	----	---
Nickel	7440-02-0	2	mg/kg	----	----	<2	----	---
Zinc	7440-66-6	5	mg/kg	----	----	<5	----	---
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	----	----	<0.1	----	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	<0.5	----	---
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	<0.5	----	---
Acenaphthene	83-32-9	0.5	mg/kg	----	----	<0.5	----	---
Fluorene	86-73-7	0.5	mg/kg	----	----	<0.5	----	---
Phenanthrene	85-01-8	0.5	mg/kg	----	----	<0.5	----	---
Anthracene	120-12-7	0.5	mg/kg	----	----	<0.5	----	---
Fluoranthene	206-44-0	0.5	mg/kg	----	----	<0.5	----	---
Pyrene	129-00-0	0.5	mg/kg	----	----	<0.5	----	---
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	<0.5	----	---
Chrysene	218-01-9	0.5	mg/kg	----	----	<0.5	----	---
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	<0.5	----	---
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	<0.5	----	---
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	<0.5	----	---
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	<0.5	----	---
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	<0.5	----	---
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	<0.5	----	---
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	<0.5	----	---
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	<0.5	----	---
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	0.6	----	---
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	1.2	----	---
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD1/20230825	BD3/20230825	BD1/20230828	BD3/20230828	----
			Sampling date / time	25-Aug-2023 00:00	25-Aug-2023 00:00	28-Aug-2023 00:00	28-Aug-2023 00:00	---
Compound	CAS Number	LOR	Unit	ES2329793-001	ES2329793-002	ES2329793-003	ES2329793-004	--------
				Result	Result	Result	Result	—
EP080/071: Total Petroleum Hydrocarbons - Continued								
C6 - C9 Fraction	----	10	mg/kg	**33**	<10	<10	**34**	---
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	**500**	---
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	---
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	---
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**500**	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	**70**	<10	<10	**73**	---
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	**64**	<10	<10	**73**	---
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	**290**	---
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	---
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	---
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	**290**	---
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	**290**	---
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	---
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	---
Ethylbenzene	100-41-4	0.5	mg/kg	**0.6**	<0.5	<0.5	<0.5	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	**4.4**	<0.5	<0.5	<0.5	---
ortho-Xylene	95-47-6	0.5	mg/kg	**1.4**	<0.5	<0.5	<0.5	---
^ Sum of BTEX	----	0.2	mg/kg	**6.4**	<0.2	<0.2	<0.2	---
^ Total Xylenes	----	0.5	mg/kg	**5.8**	<0.5	<0.5	<0.5	---
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	---
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	----	----	**90.5**	----	---
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	**88.6**	----	---
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	**65.3**	----	---
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	**93.3**	----	---
Anthracene-d10	1719-06-8	0.5	%	----	----	**106**	----	---
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	**102**	----	---
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**117**	**94.4**	**110**	**100**	---

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BD1/20230825	BD3/20230825	BD1/20230828	BD3/20230828	----
				Sampling date / time	25-Aug-2023 00:00	25-Aug-2023 00:00	28-Aug-2023 00:00	28-Aug-2023 00:00	---
Compound	CAS Number	LOR	Unit		ES2329793-001	ES2329793-002	ES2329793-003	ES2329793-004	--------
					Result	Result	Result	Result	---
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	0.2	%		**108**	**99.4**	**88.4**	**97.1**	**---**
4-Bromofluorobenzene	460-00-4	0.2	%		**124**	**99.0**	**109**	**110**	**---**

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2329793**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 01-Sep-2023
Order number	: ----	Date Analysis Commenced	: 06-Sep-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 4		
No. of samples analysed	: 4		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5282197)									
ES2329564-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	71	84	16.2	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	5	4	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	11	9.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	6	49.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	45	44	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	33	35	7.0	No Limit
ES2329877-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	1	4	101	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	10	13	27.4	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	11	19	52.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	34	52	41.5	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	72	# 108	40.3	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	159	# 224	34.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5282200)									
ES2329716-002	Anonymous	EA055: Moisture Content	----	0.1	%	7.7	8.4	8.9	No Limit
ES2330123-001	Anonymous	EA055: Moisture Content	----	0.1	%	<1.0	<1.0	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5284458)									
ES2329793-004	BD3/20230828	EA055: Moisture Content	----	0.1	%	15.2	17.0	10.8	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5282198)									
ES2329564-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2329877-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5277473)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5277473) - continued									
ES2329122-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2329123-013	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5277472)									
ES2329122-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2329123-013	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5279354)									
ES2329716-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2329877-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5277472)									
ES2329122-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2329123-013	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5279354)									
ES2329716-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2329877-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 5279354)									
ES2329716-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	0.6	0.9	38.2	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	0.6	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2329877-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5282197)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	99.9	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	103	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	114	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	100	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	99.8	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	104	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	96.2	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5282198)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	113	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5277473)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	89.5	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	81.6	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	88.7	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	86.0	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	90.1	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	90.9	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	89.8	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	91.9	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	82.4	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	90.8	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	87.1	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	98.2	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	81.2	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	87.7	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	88.1	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	97.3	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5277472)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	94.6	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	84.0	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	79.7	71.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5279354)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	84.9	72.2	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5277472)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	93.1	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	79.6	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	82.3	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5279354)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	80.2	72.4	133
EP080: BTEXN (QCLot: 5279354)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	84.2	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	104	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	102	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	107	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	106	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	96.8	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5282197)							
ES2329564-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	84.9	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.2	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	75.7	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	92.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	97.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	93.7	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	98.1	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5282198)							
ES2329564-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	92.0	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5277473)							
ES2329122-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	87.4	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	91.7	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5277472)							
ES2329122-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	106	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	106	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	119	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5279354)							
ES2329716-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	89.6	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5277472)							
ES2329122-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	106	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	110	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	115	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5279354)							
ES2329716-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	81.4	61.1	142
EP080: BTEXN (QCLot: 5279354)							
ES2329716-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	85.5	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	100	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	98.5	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	103	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	99.7	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	88.1	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2329793**	Page	: 1 of 5
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 01-Sep-2023
Site	: ----	Issue Date	: 08-Sep-2023
Sampler	: PJ	No. of samples received	: 4
Order number	: ----	No. of samples analysed	: 4

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **Duplicate outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	ES2329877--001	Anonymous	**Lead**	7439-92-1	40.3 %	0% - 20%	**RPD exceeds LOR based limits**
EG005(ED093)T: Total Metals by ICP-AES	ES2329877--001	Anonymous	**Zinc**	7440-66-6	34.0 %	0% - 20%	**RPD exceeds LOR based limits**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
BD1/20230825,	BD3/20230825	**25-Aug-2023**	**----**	----	**----**	**07-Sep-2023**	08-Sep-2023	✓
Soil Glass Jar - Unpreserved (EA055)								
BD1/20230828,	BD3/20230828	**28-Aug-2023**	**----**	----	**----**	**07-Sep-2023**	11-Sep-2023	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
BD1/20230828		**28-Aug-2023**	**07-Sep-2023**	24-Feb-2024	✓	**07-Sep-2023**	24-Feb-2024	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
BD1/20230828		**28-Aug-2023**	**07-Sep-2023**	25-Sep-2023	✓	**08-Sep-2023**	25-Sep-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
BD1/20230828		**28-Aug-2023**	**06-Sep-2023**	11-Sep-2023	✓	**07-Sep-2023**	16-Oct-2023	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230825,	BD3/20230825	**25-Aug-2023**	**06-Sep-2023**	08-Sep-2023	✓	**07-Sep-2023**	08-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230828,	BD3/20230828	**28-Aug-2023**	**06-Sep-2023**	11-Sep-2023	✓	**07-Sep-2023**	11-Sep-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230825,	BD3/20230825	**25-Aug-2023**	**06-Sep-2023**	08-Sep-2023	✓	**07-Sep-2023**	08-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230828,	BD3/20230828	**28-Aug-2023**	**06-Sep-2023**	11-Sep-2023	✓	**07-Sep-2023**	11-Sep-2023	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230825,	BD3/20230825	**25-Aug-2023**	**06-Sep-2023**	08-Sep-2023	✓	**07-Sep-2023**	08-Sep-2023	✓
Soil Glass Jar - Unpreserved (EP080)								
BD1/20230828,	BD3/20230828	**28-Aug-2023**	**06-Sep-2023**	11-Sep-2023	✓	**07-Sep-2023**	11-Sep-2023	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	3	25	**12.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	13	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2329793**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: PJ		

Dates

Date Samples Received	: 01-Sep-2023 16:13	Issue Date	: 02-Sep-2023
Client Requested Due Date	: 08-Sep-2023	Scheduled Reporting Date	: **08-Sep-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 12.5'C 11.1'C 11.6'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 4 / 4

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - S-04 TRH/BTEXN	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2329793-001	25-Aug-2023 00:00	BD1/20230825	✓	✓	
ES2329793-002	25-Aug-2023 00:00	BD3/20230825	✓	✓	
ES2329793-003	28-Aug-2023 00:00	BD1/20230828	✓		✓
ES2329793-004	28-Aug-2023 00:00	BD3/20230828	✓	✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Rec: ZRW
1/9/23
1613

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 3	TRH/BTEX											Notes/ Preservation/ Additional Requirements
1	BD1/20230825			25-08-23	S	J		x											Please forward for interlab anlaysis
2	BD3/20230825			25-08-23	S	J		x											Please forward for interlab anlaysis
3	BD1/20230828			28-08-23	S	J	x												Please forward for interlab anlaysis
4	BD3/20230828			28-08-23	S	J		x											Please forward for interlab anlaysis

Environmental Division
Sydney
Work Order Reference
ES2329793

Telephone : +61-2-8784 8555

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:	4	**Transported to laboratory by:** DP	**Lab Ref. No:**
Send results to:	Douglas Partners Pty Ltd		**Received by:**
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:** (02) 9809 0666	**Date & Time:**
Relinquished by:	PJ, 2:00 pm, 30/8/23	**Date:** 30-08-23 **Signed:**	**Signed:**

Relinquished by: Christine Ho
ELS SYD
1/9/23 1130

331896
ELS SYD
30/8/23

CERTIFICATE OF ANALYSIS

Work Order	: **ES2331849**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 18-Sep-2023 16:45
Order number	: ----	Date Analysis Commenced	: 19-Sep-2023
C-O-C number	: ----	Issue Date	: 22-Sep-2023 18:32
Sampler	: ZW		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005T: Poor matrix spike recovery was obtained for Copper and Leadon sample ES2331718 # 003. Confirmed by reanalysis.
- EG005T: Poor precision was obtained for Zinc on sample ES2331718 # 003. Confirmed by re-digestion and reanalysis.
- EP080: Samples not received in a suitable time frame to conduct the analysis within the recommended holding time.

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)			Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
			Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2331849-001	ES2331849-002	ES2331849-003	-------	--------
				Result	Result	Result	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**----**	**5.2**	**5.6**	**----**	**----**
Moisture Content	----	1.0	%	**4.1**	**----**	**----**	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	<2	----	----	----	----
Copper	7440-50-8	5	mg/kg	<5	----	----	----	----
Lead	7439-92-1	5	mg/kg	<5	----	----	----	----
Nickel	7440-02-0	2	mg/kg	<2	----	----	----	----
Zinc	7440-66-6	5	mg/kg	<5	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)			Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
			Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2331849-001	ES2331849-002	ES2331849-003	-------	--------
				Result	Result	Result	---	---
EP080/071: Total Petroleum Hydrocarbons - Continued								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	---
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	---
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	---
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	---
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	---
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	---
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	---
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	---
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	---
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	---
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	---
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	---
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	---
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	---
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	---
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	---
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**85.0**	----	----	----	---
2-Chlorophenol-D4	93951-73-6	0.5	%	**82.8**	----	----	----	---
2.4.6-Tribromophenol	118-79-6	0.5	%	**59.9**	----	----	----	---
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**100**	----	----	----	---
Anthracene-d10	1719-06-8	0.5	%	**98.1**	----	----	----	---
4-Terphenyl-d14	1718-51-0	0.5	%	**103**	----	----	----	---
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**103**	**105**	**108**	----	---

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)				Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
				Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2331849-001	ES2331849-002	ES2331849-003	--------	--------
					Result	Result	Result	---	---
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	0.2	%		**97.0**	**98.1**	**101**	**----**	**----**
4-Bromofluorobenzene	460-00-4	0.2	%		**104**	**104**	**107**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **SAND**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

CERTIFICATE OF ANALYSIS

Work Order	: **ES2331849**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 18-Sep-2023 16:45
Order number	: ----	Date Analysis Commenced	: 19-Sep-2023
C-O-C number	: ----	Issue Date	: 22-Sep-2023 18:32
Sampler	: ZW		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005T: Poor matrix spike recovery was obtained for Copper and Leadon sample ES2331718 # 003. Confirmed by reanalysis.
- EG005T: Poor precision was obtained for Zinc on sample ES2331718 # 003. Confirmed by re-digestion and reanalysis.
- EP080: Samples not received in a suitable time frame to conduct the analysis within the recommended holding time.

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)			Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
			Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2331849-001	ES2331849-002	ES2331849-003	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**----**	**5.2**	**5.6**	**----**	**----**
Moisture Content	----	1.0	%	**4.1**	**----**	**----**	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	<2	----	----	----	----
Copper	7440-50-8	5	mg/kg	<5	----	----	----	----
Lead	7439-92-1	5	mg/kg	<5	----	----	----	----
Nickel	7440-02-0	2	mg/kg	<2	----	----	----	----
Zinc	7440-66-6	5	mg/kg	<5	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)				Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
				Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2331849-001	ES2331849-002	ES2331849-003	--------	--------
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**85.0**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**82.8**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**59.9**	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**100**	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		**98.1**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**103**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**103**	**105**	**108**	----	----

Analytical Results

Sub-Matrix: SAND (Matrix: SOIL)				Sample ID	BD1/20230905	BD2/20230905	BD3/20230905	----	----
				Sampling date / time	05-Sep-2023 00:00	05-Sep-2023 00:00	05-Sep-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		ES2331849-001	ES2331849-002	ES2331849-003	--------	--------
					Result	Result	Result	----	----
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	0.2	%		**97.0**	**98.1**	**101**	**----**	**----**
4-Bromofluorobenzene	460-00-4	0.2	%		**104**	**104**	**107**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **SAND**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2331849**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 18-Sep-2023
Order number	: ----	Date Analysis Commenced	: 19-Sep-2023
C-O-C number	: ----	Issue Date	: 22-Sep-2023
Sampler	: ZW		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5311749)									
ES2331718-003	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	3	9	95.5	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	49	49	0.0	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	59	60	0.0	0% - 20%
		EG005T: Copper	7440-50-8	5	mg/kg	486	480	1.2	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	782	795	1.6	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	2520	# 4700	60.5	0% - 20%
ES2331718-003	Anonymous	EG005T: Arsenic	7440-38-2	5	mg/kg	17	28	49.6	No Limit
ES2331718-021	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	24	28	16.6	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	57	58	0.0	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	47	60	24.9	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	13	10	28.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	55	62	12.3	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5311752)									
ES2331718-005	Anonymous	EA055: Moisture Content	----	0.1	%	11.0	8.4	26.3	0% - 50%
ES2331718-023	Anonymous	EA055: Moisture Content	----	0.1	%	4.0	2.6	40.8	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5312929)									
ES2331705-001	Anonymous	EA055: Moisture Content	----	0.1	%	4.7	6.9	38.5	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5311750)									
ES2331718-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2331718-021	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5307653)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5307653) - continued									
ES2331862-007	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2331771-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.8	<0.8	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5307652)									
ES2331862-007	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	200	140	30.5	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	130	130	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2331771-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5308279)									
ES2331934-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2331996-003	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5307652)									
ES2331862-007	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	280	220	22.9	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	160	160	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2331771-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5308279)									
ES2331934-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2331996-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 5308279)									
ES2331934-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2331996-003	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5311749)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	101	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	82.0	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	117	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	106	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	100	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	102	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	94.7	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5311750)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	89.1	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5307653)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	97.1	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	95.2	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	98.8	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	96.0	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	99.8	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	107	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	90.5	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	94.3	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	90.4	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	99.2	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	94.1	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	94.1	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	99.2	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	75.4	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	82.2	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	70.5	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5307652)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	84.1	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	99.6	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	103	71.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5308279)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	108	72.2	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5307652)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	95.4	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	99.3	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	109	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5308279)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	107	72.4	133
EP080: BTEXN (QCLot: 5308279)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	102	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	111	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	105	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	115	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	116	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	112	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5311749)							
ES2331718-003	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	91.6	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	82.8	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	# 228	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	# 284	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	77.0	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	# Not Determined	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5311750)							
ES2331718-003	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	89.3	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5307653)							
ES2331771-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	97.4	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	97.4	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5307652)							
ES2331771-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	125	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	122	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	108	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5308279)							
ES2331934-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	102	60.4	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5307652)							
ES2331771-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	106	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	122	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	89.2	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5308279)							
ES2331934-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	104	61.1	142
EP080: BTEXN (QCLot: 5308279)							
ES2331934-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	88.5	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	98.7	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	94.6	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	102	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	106	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	104	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2331849**	Page	: 1 of 5
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 18-Sep-2023
Site	: Banksmeadow	Issue Date	: 22-Sep-2023
Sampler	: ZW	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Duplicate outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	ES2331718--003	Anonymous	**Zinc**	7440-66-6	60.5 %	0% - 20%	**RPD exceeds LOR based limits**
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	ES2331718--003	Anonymous	**Copper**	7440-50-8	228 %	70.0-130%	**Recovery greater than upper data quality objective**
EG005(ED093)T: Total Metals by ICP-AES	ES2331718--003	Anonymous	**Lead**	7439-92-1	284 %	70.0-130%	**Recovery greater than upper data quality objective**
EG005(ED093)T: Total Metals by ICP-AES	ES2331718--003	Anonymous	**Zinc**	7440-66-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method / **Container** / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	*Due for extraction*	***Days overdue***	*Date analysed*	*Due for analysis*	***Days overdue***
EA055: Moisture Content (Dried @ 105-110°C)						
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	----	----	----	21-Sep-2023	19-Sep-2023	**2**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
Soil Glass Jar - Unpreserved BD1/20230905	20-Sep-2023	19-Sep-2023	**1**	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	----	----	----	20-Sep-2023	19-Sep-2023	**1**
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	20-Sep-2023	19-Sep-2023	**1**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	----	----	----	20-Sep-2023	19-Sep-2023	**1**
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	20-Sep-2023	19-Sep-2023	**1**	----	----	----
EP080: BTEXN						
Soil Glass Jar - Unpreserved BD1/20230905, BD2/20230905, BD3/20230905	----	----	----	20-Sep-2023	19-Sep-2023	**1**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**----**	----	----	**21-Sep-2023**	19-Sep-2023	×
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) BD1/20230905	**05-Sep-2023**	**21-Sep-2023**	03-Mar-2024	✓	**21-Sep-2023**	03-Mar-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) BD1/20230905	**05-Sep-2023**	**21-Sep-2023**	03-Oct-2023	✓	**22-Sep-2023**	03-Oct-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) BD1/20230905	**05-Sep-2023**	**20-Sep-2023**	19-Sep-2023	×	**22-Sep-2023**	30-Oct-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**19-Sep-2023**	19-Sep-2023	✓	**20-Sep-2023**	19-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**20-Sep-2023**	19-Sep-2023	×	**21-Sep-2023**	30-Oct-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**19-Sep-2023**	19-Sep-2023	✓	**20-Sep-2023**	19-Sep-2023	×
Soil Glass Jar - Unpreserved (EP071) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**20-Sep-2023**	19-Sep-2023	×	**21-Sep-2023**	30-Oct-2023	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) BD1/20230905, BD2/20230905, BD3/20230905	**05-Sep-2023**	**19-Sep-2023**	19-Sep-2023	✓	**20-Sep-2023**	19-Sep-2023	×

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	3	24	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	3	20	**15.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2331849**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: Banksmeadow		
Sampler	: ZW		

Dates

Date Samples Received	: 18-Sep-2023 16:45	Issue Date	: 19-Sep-2023
Client Requested Due Date	: 22-Sep-2023	Scheduled Reporting Date	: **22-Sep-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 18.0'C, 18.4'C, 20.3'C - Ice Bricks present
Receipt Detail	: HARD ESKY	No. of samples received / analysed	: 3 / 3

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - S-04 TRH/BTEXN	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2331849-001	05-Sep-2023 00:00	BD1/20230905	✓		✓
ES2331849-002	05-Sep-2023 00:00	BD2/20230905	✓	✓	
ES2331849-003	05-Sep-2023 00:00	BD3/20230905	✓	✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	ZW
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No	☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)	

ALS

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 3	TRH/BTEX											Notes/ Preservation/ Additional Requirements
1	BD1/20230905		-	5-09-23	S	G	x												Please forward for interlab anlaysis
2	BD2/20230905		-	5-09-23	S	G		x											Please forward for interlab anlaysis
3	BD3/20230905		-	5-09-23	S	G		x											Please forward for interlab anlaysis

Environmental Division
Sydney
Work Order Reference
ES2331849

Telephone : +61-2-8784 8555

Metals to analyse:				**LAB RECEIPT**	
Number of samples in container:	3	**Transported to laboratory by:**	DP	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd			**Received by:**	
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**	
Relinquished by:	PJ, 2:00 pm, 6/9/23	**Date:**	06-09-23	**Signed:**	**Signed:**

Relinquished by: Christine Ho
ENS SYD
18/9/23 1130

Rec: ZW
18/9/23
1645

Appendix K2

Groundwater

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 333535

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	9 Water
Date samples received	20/09/2023
Date completed instructions received	20/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	27/09/2023
Date of Issue	03/10/2023
Reissue Details	This report replaces R00 created on 28/09/2023 due to: sample ID error

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Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Sean McAlary, Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date Analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10	<10	<10
Bromomethane	µg/L	<10	<10	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10	<10	<10
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	µg/L	<1	<1	<1	<1	<1
1,1-dichloroethane	µg/L	<1	<1	<1	<1	<1
Cis-1,2-dichloroethene	µg/L	<1	<1	<1	30	3
Bromochloromethane	µg/L	<1	<1	<1	<1	<1
Chloroform	µg/L	<1	<1	<1	<1	<1
2,2-dichloropropane	µg/L	<1	<1	<1	<1	<1
1,2-dichloroethane	µg/L	2	<1	<1	<1	<1
1,1,1-trichloroethane	µg/L	<1	<1	<1	<1	<1
1,1-dichloropropene	µg/L	<1	<1	<1	<1	<1
Cyclohexane	µg/L	<1	<1	<1	<1	2
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<1
Benzene	µg/L	<1	<1	<1	2,400	69
Dibromomethane	µg/L	<1	<1	<1	<1	<1
1,2-dichloropropane	µg/L	<1	<1	<1	7	<1
Trichloroethene	µg/L	<1	<1	<1	1	<1
Bromodichloromethane	µg/L	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	32,000	190
1,3-dichloropropane	µg/L	<1	<1	<1	<1	<1
Dibromochloromethane	µg/L	<1	<1	<1	<1	<1
1,2-dibromoethane	µg/L	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1	7	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<1
Chlorobenzene	µg/L	<1	<1	<1	5	<1
Ethylbenzene	µg/L	<1	25	1	2,900	2,200

VOCs in water						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	6	<2	4,900	2,200
Styrene	µg/L	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<1
o-xylene	µg/L	<1	1	<1	4,000	95
1,2,3-trichloropropane	µg/L	<1	<1	<1	<1	<1
Isopropylbenzene	µg/L	<1	11	10	300	110
Bromobenzene	µg/L	<1	<1	<1	<1	<1
n-propyl benzene	µg/L	<1	15	57	680	170
2-chlorotoluene	µg/L	<1	<1	<1	<1	<1
4-chlorotoluene	µg/L	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	µg/L	<1	27	150	2,500	240
Tert-butyl benzene	µg/L	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	µg/L	<1	1	560	9,900	960
1,3-dichlorobenzene	µg/L	<1	<1	<1	<1	<1
Sec-butyl benzene	µg/L	<1	2	3	15	28
1,4-dichlorobenzene	µg/L	<1	<1	<1	5	1
4-isopropyl toluene	µg/L	<1	<1	1	59	24
1,2-dichlorobenzene	µg/L	<1	<1	<1	68	8
n-butyl benzene	µg/L	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	103	103	103	114	110
Surrogate Toluene-d8	%	97	98	98	114	109
Surrogate 4-Bromofluorobenzene	%	105	96	103	92	90

VOCs in water			
Our Reference		333535-6	333535-7
Your Reference	UNITS	JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date Extracted	-	25/09/2023	27/09/2023
Date Analysed	-	26/09/2023	28/09/2023
Dichlorodifluoromethane	µg/L	<10	<10
Chloromethane	µg/L	<10	<10
Vinyl Chloride	µg/L	<10	<10
Bromomethane	µg/L	<10	<10
Chloroethane	µg/L	<10	<10
Trichlorofluoromethane	µg/L	<10	<10
1,1-Dichloroethene	µg/L	<1	<1
Trans-1,2-dichloroethene	µg/L	<1	<1
1,1-dichloroethane	µg/L	<1	<1
Cis-1,2-dichloroethene	µg/L	<1	2
Bromochloromethane	µg/L	<1	<1
Chloroform	µg/L	<1	2
2,2-dichloropropane	µg/L	<1	<1
1,2-dichloroethane	µg/L	<1	<1
1,1,1-trichloroethane	µg/L	<1	<1
1,1-dichloropropene	µg/L	<1	<1
Cyclohexane	µg/L	3	2
Carbon tetrachloride	µg/L	<1	<1
Benzene	µg/L	<1	440
Dibromomethane	µg/L	<1	<1
1,2-dichloropropane	µg/L	<1	2
Trichloroethene	µg/L	<1	<1
Bromodichloromethane	µg/L	<1	<1
trans-1,3-dichloropropene	µg/L	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1
Toluene	µg/L	<1	3,800
1,3-dichloropropane	µg/L	<1	<1
Dibromochloromethane	µg/L	<1	<1
1,2-dibromoethane	µg/L	<1	<1
Tetrachloroethene	µg/L	<1	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1
Chlorobenzene	µg/L	<1	<1
Ethylbenzene	µg/L	14	2,900

VOCs in water			
Our Reference	UNITS	333535-6	333535-7
Your Reference		JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Bromoform	µg/L	<1	<1
m+p-xylene	µg/L	<2	3,900
Styrene	µg/L	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1
o-xylene	µg/L	3	1,500
1,2,3-trichloropropane	µg/L	<1	<1
Isopropylbenzene	µg/L	<1	110
Bromobenzene	µg/L	<1	<1
n-propyl benzene	µg/L	<1	130
2-chlorotoluene	µg/L	<1	<1
4-chlorotoluene	µg/L	<1	<1
1,3,5-trimethyl benzene	µg/L	<1	340
Tert-butyl benzene	µg/L	<1	<1
1,2,4-trimethyl benzene	µg/L	3	1,600
1,3-dichlorobenzene	µg/L	<1	<1
Sec-butyl benzene	µg/L	<1	9
1,4-dichlorobenzene	µg/L	<1	4
4-isopropyl toluene	µg/L	<1	24
1,2-dichlorobenzene	µg/L	<1	14
n-butyl benzene	µg/L	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1
Hexachlorobutadiene	µg/L	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1
Surrogate Dibromofluoromethane	%	103	103
Surrogate Toluene-d8	%	98	101
Surrogate 4-Bromofluorobenzene	%	103	94

vTRH(C6-C10)/BTEXN in Water						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
TRH C_6 - C_9	µg/L	<10	40	<10	45,000	5,300
TRH C_6 - C_{10}	µg/L	<10	130	570	64,000	7,700
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	94	570	18,000	2,900
Benzene	µg/L	<1	<1	<1	2,400	69
Toluene	µg/L	<1	<1	<1	32,000	190
Ethylbenzene	µg/L	<1	25	1	2,900	2,200
m+p-xylene	µg/L	<2	6	<2	4,900	2,200
o-xylene	µg/L	<1	1	<1	4,000	95
Naphthalene	µg/L	<1	49	2	160	170
Surrogate Dibromofluoromethane	%	103	103	103	114	110
Surrogate Toluene-d8	%	97	98	98	114	109
Surrogate 4-Bromofluorobenzene	%	105	96	103	92	90

vTRH(C6-C10)/BTEXN in Water					
Our Reference		333535-6	333535-7	333535-8	333535-9
Your Reference	UNITS	JBMW10	JBMW13	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	25/09/2023	27/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	28/09/2023	25/09/2023	25/09/2023
TRH C_6 - C_9	µg/L	29	13,000	12,000	53,000
TRH C_6 - C_{10}	µg/L	36	18,000	16,000	73,000
TRH C_6 - C_{10} less BTEX (F1)	µg/L	19	5,500	4,300	23,000
Benzene	µg/L	<1	440	370	2,600
Toluene	µg/L	<1	3,800	3,600	35,000
Ethylbenzene	µg/L	14	2,900	2,600	3,100
m+p-xylene	µg/L	<2	3,900	3,800	5,100
o-xylene	µg/L	3	1,500	1,300	4,100
Naphthalene	µg/L	<1	79	87	150
Surrogate Dibromofluoromethane	%	103	103	124	111
Surrogate Toluene-d8	%	98	101	117	113
Surrogate 4-Bromofluorobenzene	%	103	94	91	92

svTRH (C10-C40) in Water						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
TRH C_{10} - C_{14}	µg/L	<50	960	760	16,000	4,500
TRH C_{15} - C_{28}	µg/L	<100	410	<100	1,400	530
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	1,400	760	17,000	5,100
TRH >C_{10} - C_{16}	µg/L	<50	1,100	140	6,700	2,500
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	1,100	140	6,500	2,300
TRH >C_{16} - C_{34}	µg/L	<100	190	<100	950	390
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	1,300	140	7,600	2,900
Surrogate o-Terphenyl	%	97	93	80	84	96

svTRH (C10-C40) in Water					
Our Reference		333535-6	333535-7	333535-8	333535-9
Your Reference	UNITS	JBMW10	JBMW13	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	28/09/2023
TRH C_{10} - C_{14}	µg/L	<50	4,800	5,500	9,500
TRH C_{15} - C_{28}	µg/L	<100	630	720	670
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	130
Total +ve TRH (C10-C36)	µg/L	<50	5,400	6,300	10,000
TRH >C_{10} - C_{16}	µg/L	<50	2,400	2,700	4,900
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	2,300	2,600	4,800
TRH >C_{16} - C_{34}	µg/L	<100	360	410	640
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	2,700	3,100	5,600
Surrogate o-Terphenyl	%	104	89	112	72

sTPH in Water (C10-C40) NEPM Silica gel				
Our Reference	UNITS	333535-4	333535-5	333535-7
Your Reference		JBMW06	JBMW07	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water
Date extracted	-	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023
TPH C_{10} - C_{14}	µg/L	8,300	3,000	2,700
TPH C_{15} - C_{28}	µg/L	<100	140	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	1,500	1,400	700
TPH >C_{16} - C_{34}	µg/L	<100	100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100
Surrogate o-Terphenyl	%	66	88	117

PAHs in Water						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	27/09/2023	27/09/2023
Naphthalene	µg/L	<0.1	35	0.2	64	84
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	35	0.20	64	84
Surrogate p-Terphenyl-d14	%	96	73	74	63	117

PAHs in Water					
Our Reference		333535-6	333535-7	333535-8	333535-9
Your Reference	UNITS	JBMW10	JBMW13	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Naphthalene	µg/L	0.5	36	48	78
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	0.51	36	48	78
Surrogate p-Terphenyl-d14	%	84	84	84	85

OCPs in Water - Trace Level					
Our Reference	UNITS	333535-1	333535-4	333535-5	333535-7
Your Reference		311	JBMW06	JBMW07	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.001	<0.050	0.17	<0.001
HCB	µg/L	<0.001	<0.050	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.050	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.050	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.050	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.050	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.050	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.050	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.050	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.050	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.10	<0.002	<0.002
pp-DDE	µg/L	<0.001	1.8	0.050	<0.001
Dieldrin	µg/L	<0.001	<0.05	<0.001	<0.001
Endrin	µg/L	<0.001	<0.050	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.10	<0.002	<0.002
pp-DDD	µg/L	<0.001	37	0.71	<0.001
Endrin Aldehyde	µg/L	<0.001	<0.050	<0.001	<0.001
pp-DDT	µg/L	<0.001	7.8	0.13	<0.001
Endosulfan Sulphate	µg/L	<0.001	<0.050	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.050	<0.001	<0.001
Surrogate TCMX	%	91	62	118	83

OP in water LL ANZECCF/ADWG					
Our Reference	UNITS	333535-1	333535-4	333535-5	333535-7
Your Reference		311	JBMW06	JBMW07	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Dichlorvos	µg/L	<0.05	<0.2	<0.05	<0.05
Mevinphos	µg/L	<0.05	<0.2	<0.05	<0.05
Phorate	µg/L	<0.05	<0.2	<0.05	<0.05
Dimethoate	µg/L	<0.1	<0.5	<0.1	<0.1
Diazinon	µg/L	<0.01	<0.05	<0.01	<0.01
Disulfoton	µg/L	<0.05	<0.2	<0.05	<0.05
Chlorpyriphos-methyl	µg/L	<0.05	<0.2	<0.05	<0.05
Parathion-Methyl	µg/L	<0.05	<0.2	<0.05	<0.05
Ronnel	µg/L	<0.05	<0.2	<0.05	<0.05
Fenitrothion	µg/L	<0.05	<0.2	<0.05	<0.05
Malathion	µg/L	<0.05	<0.2	<0.05	<0.05
Chlorpyriphos	µg/L	<0.009	<0.04	<0.009	<0.009
Fenthion	µg/L	<0.05	<0.2	<0.05	<0.05
Parathion	µg/L	<0.004	<0.02	<0.004	<0.004
Bromophos ethyl	µg/L	<0.05	<0.2	<0.05	<0.05
Methidathion	µg/L	<0.05	<0.2	<0.05	<0.05
Fenamiphos	µg/L	<0.05	<0.2	<0.05	<0.05
Ethion	µg/L	<0.05	<0.2	<0.05	<0.05
Phosalone	µg/L	<0.05	<0.2	<0.05	<0.05
Azinphos-methyl (Guthion)	µg/L	<0.2	<1	<0.2	<0.2
Coumaphos	µg/L	<0.05	<0.2	<0.05	<0.05
Surrogate TCMX	%	91	62	112	83

PCBs in Water - Trace Level					
Our Reference	UNITS	333535-1	333535-4	333535-5	333535-7
Your Reference		311	JBMW06	JBMW07	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1221	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1232	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1242	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1248	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1254	µg/L	<0.01	<0.05	<0.01	<0.01
Aroclor 1260	µg/L	<0.01	<0.05	<0.01	<0.01
Surrogate TCMX	%	91	62	112	83

Organochlorine Pesticides in Water			
Our Reference	UNITS	333535-8	333535-9
Your Reference		BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date extracted	-	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023
alpha-BHC	µg/L	<0.2	<0.2
HCB	µg/L	<0.2	<0.2
beta-BHC	µg/L	<0.2	<0.2
gamma-BHC	µg/L	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2
delta-BHC	µg/L	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2
gamma-Chlordane	µg/L	<0.2	<0.2
alpha-Chlordane	µg/L	<0.2	<0.2
Endosulfan I	µg/L	<0.2	<0.2
pp-DDE	µg/L	<0.2	0.4
Dieldrin	µg/L	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2
Endosulfan II	µg/L	<0.2	<0.2
pp-DDD	µg/L	<0.2	8.0
Endrin Aldehyde	µg/L	<0.2	<0.2
pp-DDT	µg/L	<0.2	2.0
Endosulfan Sulphate	µg/L	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2
Mirex	ug/L	<0.2	<0.2
Surrogate TCMX	%	74	74

OP Pesticides in Water			
Our Reference	UNITS	333535-8	333535-9
Your Reference		BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date extracted	-	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023
Dichlorvos	µg/L	<0.2	<0.2
Mevinphos	µg/L	<0.2	<0.2
Phorate	µg/L	<0.2	<0.2
Dimethoate	µg/L	<0.2	<0.2
Diazinon	µg/L	<0.2	<0.2
Disulfoton	µg/L	<0.2	<0.2
Chlorpyriphos-methyl	µg/L	<0.2	<0.2
Parathion-Methyl	µg/L	<0.2	<0.2
Ronnel	µg/L	<0.2	<0.2
Fenitrothion	µg/L	<0.2	<0.2
Malathion	µg/L	<0.2	<0.2
Chlorpyriphos	µg/L	<0.2	<0.2
Fenthion	µg/L	<0.2	<0.2
Parathion	µg/L	<0.2	<0.2
Bromophos ethyl	µg/L	<0.2	<0.2
Methidathion	µg/L	<0.2	<0.2
Fenamiphos	µg/L	<0.2	<0.2
Ethion	µg/L	<0.2	<0.2
Phosalone	µg/L	<0.2	<0.2
Azinphos-methyl (Guthion)	µg/L	<0.2	<0.2
Coumaphos	µg/L	<0.2	<0.2
Surrogate TCMX	%	74	74

PCBs in Water			
Our Reference		333535-8	333535-9
Your Reference	UNITS	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date extracted	-	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023
Aroclor 1016	µg/L	<2	<2
Aroclor 1221	µg/L	<2	<2
Aroclor 1232	µg/L	<2	<2
Aroclor 1242	µg/L	<2	<2
Aroclor 1248	µg/L	<2	<2
Aroclor 1254	µg/L	<2	<2
Aroclor 1260	µg/L	<2	<2
Surrogate TCMX	%	74	74

Total Phenolics in Water						
Our Reference		333535-1	333535-4	333535-5	333535-6	333535-7
Your Reference	UNITS	311	JBMW06	JBMW07	JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Total Phenolics (as Phenol)	mg/L	<0.05	0.2	0.06	<0.05	0.06

Total Phenolics in Water			
Our Reference		333535-8	333535-9
Your Reference	UNITS	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date extracted	-	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023
Total Phenolics (as Phenol)	mg/L	0.07	0.2

HM in water - dissolved						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Arsenic-Dissolved	µg/L	1	<1	<1	3	3
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	1	3	2	7	11
Copper-Dissolved	µg/L	<1	<1	<1	<1	<1
Lead-Dissolved	µg/L	<1	<1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	2	<1	<1	<1	<1
Zinc-Dissolved	µg/L	2	3	6	8	10

HM in water - dissolved					
Our Reference		333535-6	333535-7	333535-8	333535-9
Your Reference	UNITS	JBMW10	JBMW13	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Date analysed	-	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Arsenic-Dissolved	µg/L	1	1	1	3
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	1	6	5	7
Copper-Dissolved	µg/L	2	<1	<1	<1
Lead-Dissolved	µg/L	<1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	3	<1	<1	<1
Zinc-Dissolved	µg/L	8	5	6	9

Miscellaneous Inorganics						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Total Suspended Solids	mg/L	30	18	29	11	<5
Total Dissolved Solids (grav)	mg/L	220	200	150	240	270

Miscellaneous Inorganics			
Our Reference		333535-6	333535-7
Your Reference	UNITS	JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date prepared	-	20/09/2023	20/09/2023
Date analysed	-	20/09/2023	20/09/2023
Total Suspended Solids	mg/L	8	<5
Total Dissolved Solids (grav)	mg/L	300	190

PFAS in Water LOW LEVEL Short						
Our Reference		333535-1	333535-2	333535-5	333535-6	333535-7
Your Reference	UNITS	311	MW11	JBMW07	JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.029	0.011	0.024	0.013	0.013
Perfluorooctanesulfonic acid PFOS	µg/L	0.039	0.066	0.028	0.20	0.024
Perfluorooctanoic acid PFOA	µg/L	0.016	0.006	0.014	0.003	0.014
6:2 FTS	µg/L	2.2	<0.001	0.021	0.001	0.046
8:2 FTS	µg/L	<0.002	<0.002	<0.002	<0.002	0.003
Surrogate $^{13}C_8$ *PFOS*	%	101	101	99	98	102
Surrogate $^{13}C_2$ *PFOA*	%	107	103	102	102	106
Extracted ISTD $^{18}O_2$ *PFHxS*	%	82	85	71	79	74
Extracted ISTD $^{13}C_4$ *PFOS*	%	86	90	83	90	83
Extracted ISTD $^{13}C_4$ *PFOA*	%	84	126	105	120	107
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	97	#	#	176	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	182	#	#	194	#
Total Positive PFHxS & PFOS	µg/L	0.068	0.077	0.052	0.21	0.037
Total Positive PFOA & PFOS	µg/L	0.055	0.072	0.042	0.20	0.039
Total Positive PFAS	µg/L	2.3	0.083	0.087	0.21	0.10

PFAS in Water LOW LEVEL Short			
Our Reference		333535-8	333535-9
Your Reference	UNITS	BD2/20230920	BD3/20230920
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date prepared	-	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.012	0.028
Perfluorooctanesulfonic acid PFOS	µg/L	0.026	0.009
Perfluorooctanoic acid PFOA	µg/L	0.016	0.015
6:2 FTS	µg/L	0.052	0.001
8:2 FTS	µg/L	0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	103	100
Surrogate $^{13}C_2$ *PFOA*	%	98	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	84	82
Extracted ISTD $^{13}C_4$ *PFOS*	%	87	83
Extracted ISTD $^{13}C_4$ *PFOA*	%	126	112
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	#
Total Positive PFHxS & PFOS	µg/L	0.038	0.037
Total Positive PFOA & PFOS	µg/L	0.041	0.025
Total Positive PFAS	µg/L	0.11	0.054

Ion Balance						
Our Reference		333535-1	333535-2	333535-3	333535-4	333535-5
Your Reference	UNITS	311	MW11	JBMW01	JBMW06	JBMW07
Date Sampled		20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Date analysed	-	20/09/2023	20/09/2023	20/09/2023	20/09/2023	20/09/2023
Calcium - Dissolved	mg/L	17	25	15	12	20
Potassium - Dissolved	mg/L	6.7	5	2	4	4
Sodium - Dissolved	mg/L	29	17	15	39	50
Magnesium - Dissolved	mg/L	3	2	1	1	2
Hardness	mgCaCO 3 /L	56	69	41	34	58
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	66	83	62	100	110
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	66	83	62	100	110
Sulphate, SO4	mg/L	50	16	9	11	29
Chloride, Cl	mg/L	26	22	19	30	47
Ionic Balance	%	-9.0	-7.0	-12	-11	-8.0

Ion Balance			
Our Reference		333535-6	333535-7
Your Reference	UNITS	JBMW10	JBMW13
Date Sampled		20/09/2023	20/09/2023
Type of sample		Water	Water
Date prepared	-	20/09/2023	20/09/2023
Date analysed	-	20/09/2023	20/09/2023
Calcium - Dissolved	mg/L	21	20
Potassium - Dissolved	mg/L	5.3	3
Sodium - Dissolved	mg/L	39	20
Magnesium - Dissolved	mg/L	6.7	2
Hardness	mgCaCO 3 /L	80	58
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	43	80
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	43	80
Sulphate, SO4	mg/L	39	5
Chloride, Cl	mg/L	87	28
Ionic Balance	%	-9.0	-9.0

Method ID	Methodology Summary
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
Date Extracted	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date Analysed	-			28/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	107	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	104	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	107	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	103	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	99	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	88	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	88	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	79	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	69	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	81	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	66	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	124	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	70	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	74	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	76	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	80	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	81	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	86	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	72	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	74	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	75	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	74	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	71	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	74	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	82	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	84	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	68	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	73	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	67	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	112	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: OP in water LL ANZECCF/ADWG					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Dichlorvos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	92	[NT]
Mevinphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Phorate	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	µg/L	0.01	Org-022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Disulfoton	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion-Methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	72	[NT]
Fenitrothion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	77	[NT]
Malathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	83	[NT]
Chlorpyriphos	µg/L	0.009	Org-022/025	<0.009	[NT]	[NT]	[NT]	[NT]	76	[NT]
Fenthion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	µg/L	0.004	Org-022/025	<0.004	[NT]	[NT]	[NT]	[NT]	73	[NT]
Bromophos ethyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methidathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenamiphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	70	[NT]
Phosalone	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Azinphos-methyl (Guthion)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Coumaphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	112	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PCBs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Aroclor 1016	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Aroclor 1260	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	112	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Organochlorine Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
alpha-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	66	[NT]
HCB	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	68	[NT]
gamma-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	64	[NT]
delta-BHC	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	76	[NT]
Heptachlor Epoxide	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	74	[NT]
gamma-Chlordane	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	83	[NT]
Dieldrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	74	[NT]
Endrin	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Endosulfan II	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	74	[NT]
Endrin Aldehyde	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	108	[NT]
Methoxychlor	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Mirex	ug/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	101	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: OP Pesticides in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Dichlorvos	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	64	[NT]
Mevinphos	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Phorate	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Disulfoton	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion-Methyl	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	61	[NT]
Fenitrothion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	62	[NT]
Malathion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	60	[NT]
Chlorpyriphos	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	70	[NT]
Fenthion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	70	[NT]
Bromophos ethyl	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methidathion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenamiphos	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	82	[NT]
Phosalone	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Azinphos-methyl (Guthion)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Coumaphos	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	101	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: PCBs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Aroclor 1016	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	100	[NT]
Aroclor 1260	µg/L	2	Org-021	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	101	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: Total Phenolics in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333535-4
Date extracted	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Date analysed	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	1	<0.05	<0.05	0	112	108

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333535-2
Date prepared	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Date analysed	-			21/09/2023	1	21/09/2023	21/09/2023		21/09/2023	21/09/2023
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	1	1	0	100	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	100	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	1	1	0	94	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	101	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	93	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	103	99
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	2	2	0	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	2	2	0	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			20/09/2023	1	20/09/2023	20/09/2023		20/09/2023	[NT]
Date analysed	-			20/09/2023	1	20/09/2023	20/09/2023		20/09/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	30	[NT]		91	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	1	220	220	0	108	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	3	20/09/2023	20/09/2023		[NT]	[NT]
Date analysed	-			[NT]	3	20/09/2023	20/09/2023		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	3	29	33	13	[NT]	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	[NT]	3	150	[NT]		[NT]	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	333535-2
Date prepared	-			26/09/2023	1	22/09/2023	22/09/2023		26/09/2023	26/09/2023
Date analysed	-			26/09/2023	1	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	1	0.029	0.028	4	106	110
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	1	0.039	0.037	5	99	94
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	1	0.016	0.015	6	105	90
6:2 FTS	µg/L	0.001	Org-029	<0.001	1	2.2	2.2	0	103	89
8:2 FTS	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	94	101
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	100	1	101	98	3	102	101
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	102	1	107	105	2	103	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	79	1	82	83	1	78	76
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	75	1	86	88	2	79	82
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	90	1	84	86	2	90	112
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	122	1	97	97	0	121	180
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	158	1	182	188	3	178	220

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333535-2
Date prepared	-			20/09/2023	1	20/09/2023	20/09/2023		20/09/2023	20/09/2023
Date analysed	-			20/09/2023	1	20/09/2023	20/09/2023		20/09/2023	20/09/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	17	17	0	98	91
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	6.7	6.6	2	96	85
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	29	29	0	101	100
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	3	3	0	101	92
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	1	56	58	4	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	66	69	4	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	66	69	4	102	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	1	50	50	0	109	122
Chloride, Cl	mg/L	1	Inorg-081	<1	1	26	25	4	103	104
Ionic Balance	%		Inorg-040	[NT]	1	-9.0	-10	-11	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

OCP_W_TRACE_MS:- The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s333535-4.
PCB_W:The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s333535-4.
OP_W_LL_EXT_MSMS:The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s333535-4.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	333535
Date Sample Received	20/09/2023
Date Instructions Received	20/09/2023
Date Results Expected to be Reported	27/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	9 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
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Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	OCPs in Water - Trace Level	OP in water LL ANZECCF/ADWG	PCBs in Water - Trace Level	Organochlorine Pesticides in Water	OP Pesticides in Water	PCBs in Water	Total Phenolicsin Water	HM in water - dissolved	Total Suspended Solids	Total Dissolved Solids(grav)	PFAS in Water LOW LEVEL Short	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance
311	✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW11	✓	✓	✓		✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW01	✓	✓	✓		✓								✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW06	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW07	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW10	✓	✓	✓		✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW13	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BD2/20230920		✓	✓		✓				✓	✓	✓	✓	✓			✓												
BD3/20230920		✓	✓		✓				✓	✓	✓	✓	✓			✓												

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

COC 20/9 14:53.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	Combo 3L	VOC	TPH (Silica Gel)	OCP, OPP, PCB (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Hold	Combo 8L	Notes/ Preservation/ Additional Requirements
1	311	20-09-23	W	G/P	x		x		x	x	x	x			
2	MW11	20-09-23	W	G/P		x	x			x	x	x			
3	JBMW01	20-09-23	W	G/P		x	x			x		x			
4	JBMW06	20-09-23	W	G/P	x		x	x	x	x		x			
5	JBMW07	20-09-23	W	G/P	x		x	x	x	x	x	x			
6	JBMW10	20-09-23	W	G/P	x		x			x	x	x			
7	JBMW13	20-09-23	W	G/P	x		x	x	x	x	x	x			
S/O 8	BD1/20230920	20-09-23	W	G/P									x		Please forward for interlab analysis
8	BD2/20230920	20-09-23	W	G/P							x			x	
9	BD3/20230920	20-09-23	W	G/P							x			x	
S/O 10	BD4/20230920	20-09-23	W	G/P									x		Please forward for interlab analysis

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 333535
Date Received: 20/9/23
Time Received: 1515
Received By: CH
Temp: Cool/Ambient 9°C
Cooling: Ice/icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	11	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:** (02) 9809 0666	
Relinquished by:	PJ, 2:30 pm, 20/9/23	**Date:** 06-09-23	**Signed:**

LAB RECEIPT
Lab Ref. No: 333535
Received by: CH
Date & Time: 20/9/23 1515
Signed:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
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www.envirolab.com.au

CERTIFICATE OF ANALYSIS 333663

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	14 Water
Date samples received	21/09/2023
Date completed instructions received	21/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	29/09/2023
Date of Issue	03/10/2023
Reissue Details	This report replaces R00 created on 01/10/2023 due to: sample ID error

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Results Approved By
Amanda Chui, Air Toxics Team Leader
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Priya Samarawickrama, Senior Chemist
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date Analysed	-	25/09/2023	25/09/2023	26/09/2023	25/09/2023	25/09/2023
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10	<100
Chloromethane	µg/L	<10	<10	<10	<10	<100
Vinyl Chloride	µg/L	<10	<10	<10	<10	<100
Bromomethane	µg/L	<10	<10	<10	<10	<100
Chloroethane	µg/L	<10	<10	<10	<10	<100
Trichlorofluoromethane	µg/L	<10	<10	<10	<10	<100
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	<10
Trans-1,2-dichloroethene	µg/L	<1	<1	<1	<1	<10
1,1-dichloroethane	µg/L	<1	<1	<1	<1	<10
Cis-1,2-dichloroethene	µg/L	<1	2	<1	<1	<10
Bromochloromethane	µg/L	<1	<1	<1	<1	<10
Chloroform	µg/L	15	19	<1	<1	<10
2,2-dichloropropane	µg/L	<1	<1	<1	<1	<10
1,2-dichloroethane	µg/L	5	4	<1	<1	<10
1,1,1-trichloroethane	µg/L	<1	<1	<1	<1	<10
1,1-dichloropropene	µg/L	<1	<1	<1	<1	<10
Cyclohexane	µg/L	2	<1	<1	<1	<10
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<10
Benzene	µg/L	<1	7	<1	<1	<10
Dibromomethane	µg/L	<1	<1	<1	<1	<10
1,2-dichloropropane	µg/L	<1	<1	<1	<1	<10
Trichloroethene	µg/L	<1	<1	<1	<1	<10
Bromodichloromethane	µg/L	<1	<1	<1	<1	<10
trans-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<10
cis-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<10
1,1,2-trichloroethane	µg/L	<1	<1	<1	<1	<10
Toluene	µg/L	190	35	<1	<1	<10
1,3-dichloropropane	µg/L	<1	<1	<1	<1	<10
Dibromochloromethane	µg/L	<1	<1	<1	<1	<10
1,2-dibromoethane	µg/L	<1	<1	<1	<1	<10
Tetrachloroethene	µg/L	<1	<1	<1	<1	<10
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<10
Chlorobenzene	µg/L	<1	<1	<1	<1	<10
Ethylbenzene	µg/L	160	10	<1	58	810

VOCs in water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<1	<1	<1	<1	<10
m+p-xylene	µg/L	48	62	<2	230	5,200
Styrene	µg/L	1	<1	<1	<1	<10
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<10
o-xylene	µg/L	15	4	<1	19	2,900
1,2,3-trichloropropane	µg/L	<1	<1	<1	<1	<10
Isopropylbenzene	µg/L	76	4	<1	31	33
Bromobenzene	µg/L	<1	<1	<1	<1	<10
n-propyl benzene	µg/L	60	3	<1	64	17
2-chlorotoluene	µg/L	<1	<1	<1	<1	<10
4-chlorotoluene	µg/L	<1	<1	<1	<1	<10
1,3,5-trimethyl benzene	µg/L	5	2	<1	210	42
Tert-butyl benzene	µg/L	<1	<1	<1	<1	<10
1,2,4-trimethyl benzene	µg/L	28	8	<1	320	110
1,3-dichlorobenzene	µg/L	<1	<1	<1	<1	<10
Sec-butyl benzene	µg/L	7	<1	<1	<1	<10
1,4-dichlorobenzene	µg/L	<1	<1	<1	<1	<10
4-isopropyl toluene	µg/L	2	<1	<1	13	<10
1,2-dichlorobenzene	µg/L	<1	<1	<1	<1	<10
n-butyl benzene	µg/L	<1	<1	<1	<1	<10
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1	<1	<10
1,2,4-trichlorobenzene	µg/L	<1	<1	<1	<1	<10
Hexachlorobutadiene	µg/L	<1	<1	<1	<1	<10
1,2,3-trichlorobenzene	µg/L	<1	<1	<1	<1	<10
Surrogate Dibromofluoromethane	%	99	101	102	112	113
Surrogate Toluene-d8	%	100	101	98	115	120
Surrogate 4-Bromofluorobenzene	%	89	100	108	104	103

VOCs in water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	22/09/2023	28/09/2023	22/09/2023	25/09/2023	25/09/2023
Date Analysed	-	25/09/2023	29/09/2023	25/09/2023	26/09/2023	26/09/2023
Dichlorodifluoromethane	µg/L	<1000	<10	<100	<100	<10
Chloromethane	µg/L	<1000	<10	<100	<100	<10
Vinyl Chloride	µg/L	<1000	<10	<100	<100	<10
Bromomethane	µg/L	<1000	<10	<100	<100	<10
Chloroethane	µg/L	<1000	<10	<100	<100	<10
Trichlorofluoromethane	µg/L	<1000	<10	<100	<100	<10
1,1-Dichloroethene	µg/L	<100	<1	<10	<10	<1
Trans-1,2-dichloroethene	µg/L	<100	<1	<10	<10	<1
1,1-dichloroethane	µg/L	<100	<1	<10	<10	<1
Cis-1,2-dichloroethene	µg/L	<100	<1	<10	<10	<1
Bromochloromethane	µg/L	<100	<1	<10	<10	<1
Chloroform	µg/L	<100	<1	<10	<10	<1
2,2-dichloropropane	µg/L	<100	<1	<10	<10	<1
1,2-dichloroethane	µg/L	<100	<1	<10	<10	<1
1,1,1-trichloroethane	µg/L	<100	<1	<10	<10	<1
1,1-dichloropropene	µg/L	<100	<1	<10	<10	<1
Cyclohexane	µg/L	<100	5	<10	<10	<1
Carbon tetrachloride	µg/L	<100	<1	<10	<10	<1
Benzene	µg/L	240	<1	<10	<10	<1
Dibromomethane	µg/L	<100	<1	<10	<10	<1
1,2-dichloropropane	µg/L	<100	<1	<10	<10	<1
Trichloroethene	µg/L	<100	<1	<10	<10	<1
Bromodichloromethane	µg/L	<100	<1	<10	<10	<1
trans-1,3-dichloropropene	µg/L	<100	<1	<10	<10	<1
cis-1,3-dichloropropene	µg/L	<100	<1	<10	<10	<1
1,1,2-trichloroethane	µg/L	<100	<1	<10	<10	<1
Toluene	µg/L	140,000	48	26	540	<1
1,3-dichloropropane	µg/L	<100	<1	<10	<10	<1
Dibromochloromethane	µg/L	<100	<1	<10	<10	<1
1,2-dibromoethane	µg/L	<100	<1	<10	<10	<1
Tetrachloroethene	µg/L	<100	<1	<10	<10	<1
1,1,1,2-tetrachloroethane	µg/L	<100	<1	<10	<10	<1
Chlorobenzene	µg/L	<100	<1	<10	<10	<1
Ethylbenzene	µg/L	44,000	110	530	610	<1

VOCs in water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<100	<1	<10	<10	<1
m+p-xylene	µg/L	19,000	120	2,700	1,200	<2
Styrene	µg/L	<100	<1	<10	<10	<1
1,1,2,2-tetrachloroethane	µg/L	<100	<1	<10	<10	<1
o-xylene	µg/L	17,000	30	770	420	<1
1,2,3-trichloropropane	µg/L	<100	<1	<10	<10	<1
Isopropylbenzene	µg/L	360	5	27	51	<1
Bromobenzene	µg/L	<100	<1	<10	<10	<1
n-propyl benzene	µg/L	190	3	47	80	<1
2-chlorotoluene	µg/L	<100	<1	<10	<10	<1
4-chlorotoluene	µg/L	<100	<1	<10	<10	<1
1,3,5-trimethyl benzene	µg/L	460	9	110	100	<1
Tert-butyl benzene	µg/L	<100	<1	<10	<10	<1
1,2,4-trimethyl benzene	µg/L	310	26	380	320	2
1,3-dichlorobenzene	µg/L	<100	<1	<10	<10	<1
Sec-butyl benzene	µg/L	<100	<1	<10	12	<1
1,4-dichlorobenzene	µg/L	<100	<1	<10	<10	<1
4-isopropyl toluene	µg/L	<100	<1	<10	66	<1
1,2-dichlorobenzene	µg/L	<100	<1	<10	<10	<1
n-butyl benzene	µg/L	<100	<1	<10	<10	<1
1,2-dibromo-3-chloropropane	µg/L	<100	<1	<10	<10	<1
1,2,4-trichlorobenzene	µg/L	<100	<1	<10	<10	<1
Hexachlorobutadiene	µg/L	<100	<1	<10	<10	<1
1,2,3-trichlorobenzene	µg/L	<100	<1	<10	<10	<1
Surrogate Dibromofluoromethane	%	73	103	102	96	101
Surrogate Toluene-d8	%	101	101	100	100	97
Surrogate 4-Bromofluorobenzene	%	95	87	91	96	107

VOCs in water			
Our Reference	UNITS	333663-11	333663-12
Your Reference		JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date Extracted	-	22/09/2023	25/09/2023
Date Analysed	-	25/09/2023	26/09/2023
Dichlorodifluoromethane	µg/L	<100	<100
Chloromethane	µg/L	<100	<100
Vinyl Chloride	µg/L	<100	<100
Bromomethane	µg/L	<100	<100
Chloroethane	µg/L	<100	<100
Trichlorofluoromethane	µg/L	<100	<100
1,1-Dichloroethene	µg/L	<10	<10
Trans-1,2-dichloroethene	µg/L	<10	<10
1,1-dichloroethane	µg/L	<10	<10
Cis-1,2-dichloroethene	µg/L	<10	21
Bromochloromethane	µg/L	<10	<10
Chloroform	µg/L	<10	<10
2,2-dichloropropane	µg/L	<10	<10
1,2-dichloroethane	µg/L	<10	<10
1,1,1-trichloroethane	µg/L	<10	<10
1,1-dichloropropene	µg/L	<10	<10
Cyclohexane	µg/L	<10	<10
Carbon tetrachloride	µg/L	<10	<10
Benzene	µg/L	<10	5,400
Dibromomethane	µg/L	<10	<10
1,2-dichloropropane	µg/L	<10	<10
Trichloroethene	µg/L	<10	<10
Bromodichloromethane	µg/L	<10	<10
trans-1,3-dichloropropene	µg/L	<10	<10
cis-1,3-dichloropropene	µg/L	<10	<10
1,1,2-trichloroethane	µg/L	<10	<10
Toluene	µg/L	<10	36,000
1,3-dichloropropane	µg/L	<10	<10
Dibromochloromethane	µg/L	<10	<10
1,2-dibromoethane	µg/L	<10	<10
Tetrachloroethene	µg/L	<10	<10
1,1,1,2-tetrachloroethane	µg/L	<10	<10
Chlorobenzene	µg/L	<10	61
Ethylbenzene	µg/L	6,300	1,500

VOCs in water			
Our Reference	UNITS	333663-11	333663-12
Your Reference		JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Bromoform	µg/L	<10	<10
m+p-xylene	µg/L	1,600	1,600
Styrene	µg/L	<10	<10
1,1,2,2-tetrachloroethane	µg/L	<10	<10
o-xylene	µg/L	100	630
1,2,3-trichloropropane	µg/L	<10	<10
Isopropylbenzene	µg/L	510	92
Bromobenzene	µg/L	<10	<10
n-propyl benzene	µg/L	520	120
2-chlorotoluene	µg/L	<10	<10
4-chlorotoluene	µg/L	<10	<10
1,3,5-trimethyl benzene	µg/L	240	190
Tert-butyl benzene	µg/L	<10	<10
1,2,4-trimethyl benzene	µg/L	920	850
1,3-dichlorobenzene	µg/L	<10	<10
Sec-butyl benzene	µg/L	99	14
1,4-dichlorobenzene	µg/L	<10	<10
4-isopropyl toluene	µg/L	30	12
1,2-dichlorobenzene	µg/L	<10	31
n-butyl benzene	µg/L	<10	<10
1,2-dibromo-3-chloropropane	µg/L	<10	<10
1,2,4-trichlorobenzene	µg/L	<10	<10
Hexachlorobutadiene	µg/L	<10	<10
1,2,3-trichlorobenzene	µg/L	<10	<10
Surrogate Dibromofluoromethane	%	103	125
Surrogate Toluene-d8	%	101	116
Surrogate 4-Bromofluorobenzene	%	86	97

vTRH(C6-C10)/BTEXN in Water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	22/09/2023	25/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	25/09/2023	26/09/2023	25/09/2023	25/09/2023
TRH C_6 - C_9	µg/L	300	160	<10	250	7,700
TRH C_6 - C_{10}	µg/L	550	190	<10	920	12,000
TRH C_6 - C_{10} less BTEX (F1)	µg/L	140	78	<10	610	3,100
Benzene	µg/L	<1	7	<1	<1	<10
Toluene	µg/L	190	35	<1	<1	<10
Ethylbenzene	µg/L	160	10	<1	58	810
m+p-xylene	µg/L	48	62	<2	230	5,200
o-xylene	µg/L	15	4	<1	19	2,900
Naphthalene	µg/L	22	17	<1	31	11
Surrogate Dibromofluoromethane	%	99	101	102	112	113
Surrogate Toluene-d8	%	100	101	98	115	120
Surrogate 4-Bromofluorobenzene	%	89	100	108	104	103

vTRH(C6-C10)/BTEXN in Water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	22/09/2023	28/09/2023	22/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	29/09/2023	25/09/2023	26/09/2023	26/09/2023
TRH C_6 - C_9	µg/L	250,000	380	3,400	3,500	<10
TRH C_6 - C_{10}	µg/L	270,000	490	5,100	4,800	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	50,000	180	1,100	2,000	<10
Benzene	µg/L	240	<1	<10	<10	<1
Toluene	µg/L	140,000	48	26	540	<1
Ethylbenzene	µg/L	44,000	110	530	610	<1
m+p-xylene	µg/L	19,000	120	2,700	1,200	<2
o-xylene	µg/L	17,000	30	770	420	<1
Naphthalene	µg/L	<100	6	27	270	1
Surrogate Dibromofluoromethane	%	73	103	102	96	101
Surrogate Toluene-d8	%	101	101	100	100	97
Surrogate 4-Bromofluorobenzene	%	95	87	91	96	107

vTRH(C6-C10)/BTEXN in Water					
Our Reference		333663-11	333663-12	333663-13	333663-14
Your Reference	UNITS	JBMW05	JBMW12	Trip Spike/20230921	Trip Blank/20230921
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	22/09/2023	25/09/2023	22/09/2023	22/09/2023
Date analysed	-	25/09/2023	26/09/2023	25/09/2023	25/09/2023
TRH C_6 - C_9	µg/L	11,000	58,000	[NA]	<10
TRH C_6 - C_{10}	µg/L	14,000	64,000	[NA]	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	5,600	20,000	[NA]	<10
Benzene	µg/L	<10	4,200	105%	<1
Toluene	µg/L	3	36,000	103%	<1
Ethylbenzene	µg/L	6,300	1,500	115%	<1
m+p-xylene	µg/L	1,600	1,600	113%	<2
o-xylene	µg/L	100	630	109%	<1
Naphthalene	µg/L	53	54	[NA]	<1
Surrogate Dibromofluoromethane	%	103	125	105	101
Surrogate Toluene-d8	%	101	116	102	99
Surrogate 4-Bromofluorobenzene	%	86	97	93	99

svTRH (C10-C40) in Water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	26/09/2023	26/09/2023
TRH C_{10} - C_{14}	µg/L	600	320	<50	2,500	870
TRH C_{15} - C_{28}	µg/L	320	400	<100	1,100	260
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	910	720	<50	3,500	1,100
TRH >C_{10} - C_{16}	µg/L	500	350	<50	1,800	440
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	480	340	<50	1,700	430
TRH >C_{16} - C_{34}	µg/L	270	320	<100	830	230
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	770	670	<50	2,600	670
Surrogate o-Terphenyl	%	85	92	70	85	109

svTRH (C10-C40) in Water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
TRH C_{10} - C_{14}	µg/L	3,300	630	1,400	14,000	<50
TRH C_{15} - C_{28}	µg/L	990	1,200	160	7,000	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	580	<100
Total +ve TRH (C10-C36)	µg/L	4,300	1,900	1,500	22,000	<50
TRH >C_{10} - C_{16}	µg/L	2,400	810	510	11,000	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	2,400	800	480	11,000	<50
TRH >C_{16} - C_{34}	µg/L	860	1,100	120	5,700	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	150	<100
Total +ve TRH (>C10-C40)	µg/L	3,200	1,900	630	17,000	<50
Surrogate o-Terphenyl	%	126	135	119	#	78

svTRH (C10-C40) in Water			
Our Reference		333663-11	333663-12
Your Reference	UNITS	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date extracted	-	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	26/09/2023
TRH C_{10} - C_{14}	µg/L	3,800	3,200
TRH C_{15} - C_{28}	µg/L	410	1,000
TRH C_{29} - C_{36}	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	4,200	4,200
TRH >C_{10} - C_{16}	µg/L	2,400	2,300
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	2,400	2,300
TRH >C_{16} - C_{34}	µg/L	190	490
TRH >C_{34} - C_{40}	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	2,600	2,800
Surrogate o-Terphenyl	%	61	130

sTPH in Water (C10-C40) NEPM Silica gel						
Our Reference		333663-1	333663-2	333663-5	333663-6	333663-7
Your Reference	UNITS	209	210	307	331	334
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	29/09/2023	29/09/2023	29/09/2023	29/09/2023	29/09/2023
TPH C_{10} - C_{14}	µg/L	200	75	310	800	56
TPH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	140	83	140	290	<50
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100	100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	77	88	74	75	72

sTPH in Water (C10-C40) NEPM Silica gel					
Our Reference		333663-8	333663-9	333663-11	333663-12
Your Reference	UNITS	338	JBMW03	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	29/09/2023	29/09/2023	29/09/2023	29/09/2023
TPH C_{10} - C_{14}	µg/L	630	840	2,200	920
TPH C_{15} - C_{28}	µg/L	<100	400	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	250	940	1,300	300
TPH >C_{16} - C_{34}	µg/L	<100	180	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100
Surrogate o-Terphenyl	%	77	65	68	67

PAHs in Water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	26/09/2023
Naphthalene	µg/L	11	11	<0.1	13	9.7
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	11	11	<0.1	13	9.7
Surrogate p-Terphenyl-d14	%	88	93	76	71	107

PAHs in Water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	28/09/2023	26/09/2023	27/09/2023	28/09/2023	27/09/2023
Naphthalene	µg/L	29	2.9	19	140	0.6
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	1.9	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	3.3	<0.1
Fluorene	µg/L	<0.1	<0.1	1.6	5.8	<0.1
Phenanthrene	µg/L	<0.1	1.1	<0.1	11	0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	0.8	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	29	4.0	20	160	0.70
Surrogate p-Terphenyl-d14	%	88	100	106	100	66

PAHs in Water			
Our Reference		333663-11	333663-12
Your Reference	UNITS	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date extracted	-	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023
Naphthalene	µg/L	46	30
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	46	30
Surrogate p-Terphenyl-d14	%	88	89

OCPs in Water - Trace Level						
Our Reference		333663-5	333663-6	333663-7	333663-9	333663-11
Your Reference	UNITS	307	331	334	JBMW03	JBMW05
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
alpha-BHC	µg/L	<0.001	0.090	<0.001	<0.001	<0.001
HCB	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	µg/L	<0.001	0.006	<0.001	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDE	µg/L	<0.001	0.17	<0.001	<0.001	0.005
Dieldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDD	µg/L	<0.001	1.8	0.020	<0.001	0.010
Endrin Aldehyde	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
pp-DDT	µg/L	<0.001	2.0	0.004	<0.001	0.026
Endosulfan Sulphate	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Surrogate TCMX	%	100	87	99	94	98

OCPs in Water - Trace Level		
Our Reference		333663-12
Your Reference	UNITS	JBMW12
Date Sampled		21/09/2023
Type of sample		Water
Date extracted	-	26/09/2023
Date analysed	-	26/09/2023
alpha-BHC	µg/L	0.078
HCB	µg/L	<0.001
beta-BHC	µg/L	<0.001
gamma-BHC	µg/L	<0.001
Heptachlor	µg/L	<0.001
delta-BHC	µg/L	<0.001
Aldrin	µg/L	<0.001
Heptachlor Epoxide	µg/L	<0.001
gamma-Chlordane	µg/L	<0.001
alpha-Chlordane	µg/L	<0.001
Endosulfan I	µg/L	<0.002
pp-DDE	µg/L	0.041
Dieldrin	µg/L	<0.001
Endrin	µg/L	<0.001
Endosulfan II	µg/L	<0.002
pp-DDD	µg/L	3.7
Endrin Aldehyde	µg/L	<0.001
pp-DDT	µg/L	0.040
Endosulfan Sulphate	µg/L	<0.001
Methoxychlor	µg/L	<0.001
Surrogate TCMX	%	90

OP in water LL ANZECCF/ADWG						
Our Reference		333663-5	333663-6	333663-7	333663-9	333663-11
Your Reference	UNITS	307	331	334	JBMW03	JBMW05
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	28/09/2023	26/09/2023	28/09/2023	26/09/2023
Dichlorvos	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Mevinphos	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Phorate	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Dimethoate	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyriphos-methyl	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-Methyl	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Ronnel	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Fenitrothion	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Malathion	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyriphos	µg/L	<0.009	<0.009	<0.009	<0.009	<0.009
Fenthion	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	µg/L	<0.004	<0.004	<0.004	<0.004	<0.004
Bromophos ethyl	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Methidathion	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Phosalone	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos-methyl (Guthion)	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Coumaphos	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate TCMX	%	100	87	99	94	98

OP in water LL ANZECCF/ADWG		
Our Reference		333663-12
Your Reference	UNITS	JBMW12
Date Sampled		21/09/2023
Type of sample		Water
Date extracted	-	26/09/2023
Date analysed	-	26/09/2023
Dichlorvos	µg/L	<0.05
Mevinphos	µg/L	<0.05
Phorate	µg/L	<0.05
Dimethoate	µg/L	<0.1
Diazinon	µg/L	<0.01
Disulfoton	µg/L	<0.05
Chlorpyriphos-methyl	µg/L	<0.05
Parathion-Methyl	µg/L	<0.05
Ronnel	µg/L	<0.05
Fenitrothion	µg/L	<0.05
Malathion	µg/L	<0.05
Chlorpyriphos	µg/L	<0.009
Fenthion	µg/L	<0.05
Parathion	µg/L	<0.004
Bromophos ethyl	µg/L	<0.05
Methidathion	µg/L	<0.05
Fenamiphos	µg/L	<0.05
Ethion	µg/L	<0.05
Phosalone	µg/L	<0.05
Azinphos-methyl (Guthion)	µg/L	<0.2
Coumaphos	µg/L	<0.05
Surrogate TCMX	%	90

PCBs in Water - Trace Level						
Our Reference		333663-5	333663-6	333663-7	333663-9	333663-11
Your Reference	UNITS	307	331	334	JBMW03	JBMW05
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	28/09/2023	26/09/2023	28/09/2023	26/09/2023
Aroclor 1016	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1221	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1232	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1242	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1248	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1254	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Aroclor 1260	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Surrogate TCMX	%	100	87	99	94	98

PCBs in Water - Trace Level		
Our Reference		333663-12
Your Reference	UNITS	JBMW12
Date Sampled		21/09/2023
Type of sample		Water
Date extracted	-	26/09/2023
Date analysed	-	26/09/2023
Aroclor 1016	µg/L	<0.01
Aroclor 1221	µg/L	<0.01
Aroclor 1232	µg/L	<0.01
Aroclor 1242	µg/L	<0.01
Aroclor 1248	µg/L	<0.01
Aroclor 1254	µg/L	<0.01
Aroclor 1260	µg/L	<0.01
Surrogate TCMX	%	90

Total Phenolics in Water						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Total Phenolics in Water						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-12
Your Reference	UNITS	331	334	338	JBMW03	JBMW12
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Total Phenolics (as Phenol)	mg/L	0.2	<0.05	<0.05	4.8	0.1

HM in water - dissolved						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	3	1	<1	2	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	2	6	<1	<1	2
Copper-Dissolved	µg/L	<1	<1	5	1	<1
Lead-Dissolved	µg/L	<1	1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	12	7	<1	<1	<1
Zinc-Dissolved	µg/L	12	24	4	4	2

HM in water - dissolved						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	10	14	<1	23	1
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	3	7	<1	6	24
Copper-Dissolved	µg/L	<1	<1	<1	<1	1
Lead-Dissolved	µg/L	<1	33	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	2	9	<1	5	<1
Zinc-Dissolved	µg/L	13	66	<1	<1	<1

HM in water - dissolved			
Our Reference		333663-11	333663-12
Your Reference	UNITS	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date prepared	-	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	11	6
Cadmium-Dissolved	µg/L	<0.1	<0.1
Chromium-Dissolved	µg/L	17	7
Copper-Dissolved	µg/L	<1	<1
Lead-Dissolved	µg/L	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05
Nickel-Dissolved	µg/L	<1	<1
Zinc-Dissolved	µg/L	<1	1

Miscellaneous Inorganics						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Total Suspended Solids	mg/L	19	67	43	19	10
Total Dissolved Solids (grav)	mg/L	510	750	400	470	590

Miscellaneous Inorganics						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Total Suspended Solids	mg/L	350	95	32	19	5
Total Dissolved Solids (grav)	mg/L	350	670	50	6,100	160

Miscellaneous Inorganics			
Our Reference		333663-11	333663-12
Your Reference	UNITS	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date prepared	-	28/09/2023	28/09/2023
Date analysed	-	28/09/2023	28/09/2023
Total Suspended Solids	mg/L	68	19
Total Dissolved Solids (grav)	mg/L	420	180

PFAS in Water LOW LEVEL Short						
Our Reference		333663-3	333663-5	333663-6	333663-7	333663-8
Your Reference	UNITS	302	307	331	334	338
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	26/09/2023	22/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	22/09/2023	26/09/2023	26/09/2023	26/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.047	0.025	0.045	0.16	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	0.013	0.038	0.15	0.029	0.017
Perfluorooctanoic acid PFOA	µg/L	0.013	0.080	0.053	0.072	0.016
6:2 FTS	µg/L	<0.001	7.1	0.15	1.3	0.18
8:2 FTS	µg/L	<0.002	<0.02	0.006	<0.002	0.006
Surrogate $^{13}C_8$ *PFOS*	%	101	93	99	104	104
Surrogate $^{13}C_2$ *PFOA*	%	101	92	104	101	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	70	100	71	67	80
Extracted ISTD $^{13}C_4$ *PFOS*	%	74	107	73	84	78
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	98	90	52	115
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	134	97	194	#	155
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	175	89	#	189	175
Total Positive PFHxS & PFOS	µg/L	0.061	0.064	0.19	0.19	0.017
Total Positive PFOA & PFOS	µg/L	0.027	0.12	0.20	0.10	0.034
Total Positive PFAS	µg/L	0.074	7.3	0.40	1.6	0.22

PFAS in Water LOW LEVEL Short					
Our Reference	UNITS	333663-9	333663-10	333663-11	333663-12
Your Reference		JBMW03	JBMW04	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.93	0.026	0.037	0.023
Perfluorooctanesulfonic acid PFOS	µg/L	0.12	0.36	0.10	0.046
Perfluorooctanoic acid PFOA	µg/L	0.26	0.019	0.024	0.019
6:2 FTS	µg/L	3.3	<0.001	<0.001	0.013
8:2 FTS	µg/L	0.02	<0.002	0.01	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	101	102	103	103
Surrogate $^{13}C_2$ *PFOA*	%	101	102	102	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%	128	70	76	74
Extracted ISTD $^{13}C_4$ *PFOS*	%	129	116	76	77
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	103	111	116
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	134	#	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	187	146	#	#
Total Positive PFHxS & PFOS	µg/L	1.0	0.39	0.14	0.070
Total Positive PFOA & PFOS	µg/L	0.37	0.38	0.12	0.066
Total Positive PFAS	µg/L	4.6	0.41	0.18	0.10

Ion Balance						
Our Reference		333663-1	333663-2	333663-3	333663-4	333663-5
Your Reference	UNITS	209	210	302	305	307
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	29	17	31	12	12
Potassium - Dissolved	mg/L	7.6	6.7	3	4	11
Sodium - Dissolved	mg/L	66	39	62	140	190
Magnesium - Dissolved	mg/L	5	4	3	3	2
Hardness	mgCaCO 3 /L	91	58	92	41	37
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	92	49	20	330	160
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	92	49	20	330	160
Sulphate, SO4	mg/L	55	27	74	14	190
Chloride, Cl	mg/L	55	45	80	11	84

Ion Balance						
Our Reference		333663-6	333663-7	333663-8	333663-9	333663-10
Your Reference	UNITS	331	334	338	JBMW03	JBMW04
Date Sampled		21/09/2023	21/09/2023	21/09/2023	21/09/2023	21/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	85	92	7.8	11	17
Potassium - Dissolved	mg/L	5.0	22	1	6.7	5.6
Sodium - Dissolved	mg/L	11	59	5.9	1,600	21
Magnesium - Dissolved	mg/L	5	20	<0.5	3	2
Hardness	mgCaCO 3 /L	230	310	20	37	53
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	280	680	26	2,500	50
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	120	<5
Total Alkalinity as $CaCO_3$	mg/L	280	680	26	2,600	50
Sulphate, SO4	mg/L	<1	1	4	<1	23
Chloride, Cl	mg/L	18	49	8	66	39

Ion Balance			
Our Reference		333663-11	333663-12
Your Reference	UNITS	JBMW05	JBMW12
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date prepared	-	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	88	20
Potassium - Dissolved	mg/L	15	3
Sodium - Dissolved	mg/L	20	21
Magnesium - Dissolved	mg/L	5.1	2
Hardness	mgCaCO 3 /L	240	61
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	350	85
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	350	85
Sulphate, SO4	mg/L	<1	7
Chloride, Cl	mg/L	19	30

Method ID	Methodology Summary
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
Date Extracted	-			22/09/2023	2	22/09/2023	25/09/2023		22/09/2023	[NT]
Date Analysed	-			25/09/2023	2	25/09/2023	26/09/2023		25/09/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	2	<10	<10	0	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	2	<1	<1	0	95	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	2	2	2	0	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	2	19	20	5	94	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	2	4	4	0	98	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	2	<1	<1	0	93	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	2	7	6	15	87	[NT]
Dibromomethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	2	<1	<1	0	105	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	2	<1	<1	0	87	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	2	35	32	9	110	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	2	<1	<1	0	94	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	2	<1	<1	0	102	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	2	10	9	11	107	[NT]
Bromoform	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	2	62	58	7	107	[NT]
Styrene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
o-xylene	µg/L	1	Org-023	<1	2	4	3	29	105	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	2	4	4	0	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	2	3	2	40	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	2	2	1	67	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	2	8	6	29	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	2	101	107	6	98	[NT]
Surrogate Toluene-d8	%		Org-023	99	2	101	100	1	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	106	2	100	99	1	102	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W8	[NT]
Date extracted	-			22/09/2023	2	22/09/2023	25/09/2023		22/09/2023	[NT]
Date analysed	-			25/09/2023	2	25/09/2023	26/09/2023		25/09/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	2	160	150	6	104	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	2	190	180	5	104	[NT]
Benzene	µg/L	1	Org-023	<1	2	7	6	15	87	[NT]
Toluene	µg/L	1	Org-023	<1	2	35	32	9	110	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	2	10	9	11	107	[NT]
m+p-xylene	µg/L	2	Org-023	<2	2	62	58	7	107	[NT]
o-xylene	µg/L	1	Org-023	<1	2	4	3	29	105	[NT]
Naphthalene	µg/L	1	Org-023	<1	2	17	13	27	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	2	101	107	6	98	[NT]
Surrogate Toluene-d8	%		Org-023	99	2	101	100	1	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	106	2	100	99	1	102	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-2
Date extracted	-			26/09/2023	1	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Date analysed	-			26/09/2023	1	27/09/2023	27/09/2023		26/09/2023	27/09/2023
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	1	600	570	5	97	82
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	1	320	330	3	105	94
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	1	<100	<100	0	114	80
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	1	500	480	4	97	82
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	1	270	280	4	105	94
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	1	<100	<100	0	114	80
Surrogate o-Terphenyl	%		Org-020	105	1	85	100	16	83	106

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	10	26/09/2023	26/09/2023		26/09/2023	[NT]
Date analysed	-			[NT]	10	26/09/2023	26/09/2023		26/09/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	[NT]	10	<50	<50	0	85	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	[NT]	10	<100	<100	0	89	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	[NT]	10	<100	<100	0	86	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	[NT]	10	<50	<50	0	85	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	[NT]	10	<100	<100	0	89	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	[NT]	10	<100	<100	0	86	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	10	78	102	27	70	[NT]

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			28/09/2023	[NT]	[NT]	[NT]	[NT]	28/09/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	97	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-2
Date extracted	-			26/09/2023	1	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Date analysed	-			26/09/2023	1	27/09/2023	27/09/2023		26/09/2023	27/09/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	1	11	11	0	97	85
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	69
Fluorene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	109	74
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	78
Anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	79
Pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	115	83
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	69
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	99
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	113	1	88	95	8	111	92

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			[NT]	10	26/09/2023	26/09/2023		26/09/2023	[NT]
Date analysed	-			[NT]	10	27/09/2023	27/09/2023		27/09/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	[NT]	10	0.6	0.8	29	106	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	107	[NT]
Fluorene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	119	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	[NT]	10	0.1	0.1	0	112	[NT]
Anthracene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	114	[NT]
Pyrene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	115	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	94	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	[NT]	10	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	107	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	[NT]	10	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	10	66	88	29	113	[NT]

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	101	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	95	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	90	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	113	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	113	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	118	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	93	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	109	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: OP in water LL ANZECCF/ADWG						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Dichlorvos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	112	[NT]
Mevinphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Phorate	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	µg/L	0.01	Org-022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Disulfoton	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion-Methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Fenitrothion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	95	[NT]
Malathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	105	[NT]
Chlorpyriphos	µg/L	0.009	Org-022/025	<0.009	[NT]	[NT]	[NT]	[NT]	105	[NT]
Fenthion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	µg/L	0.004	Org-022/025	<0.004	[NT]	[NT]	[NT]	[NT]	95	[NT]
Bromophos ethyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methidathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenamiphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	93	[NT]
Phosalone	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Azinphos-methyl (Guthion)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Coumaphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PCBs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Aroclor 1016	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	131	[NT]
Aroclor 1260	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: Total Phenolics in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-2
Date extracted	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Date analysed	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	1	<0.05	<0.05	0	110	72

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-2
Date prepared	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Date analysed	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	3	3	0	99	99
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	98	98
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	2	2	0	100	97
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	103	96
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	104	93
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	[NT]		101	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	12	12	0	95	96
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	12	10	18	101	102

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	333663-4
Date prepared	-			[NT]	3	25/09/2023	25/09/2023		[NT]	25/09/2023
Date analysed	-			[NT]	3	25/09/2023	25/09/2023		[NT]	25/09/2023
Arsenic-Dissolved	µg/L	1	Metals-022	[NT]	3	<1	[NT]		[NT]	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	[NT]	3	<0.1	[NT]		[NT]	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	[NT]	3	<1	[NT]		[NT]	[NT]
Copper-Dissolved	µg/L	1	Metals-022	[NT]	3	5	[NT]		[NT]	[NT]
Lead-Dissolved	µg/L	1	Metals-022	[NT]	3	<1	[NT]		[NT]	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	[NT]	3	<0.05	<0.05	0	[NT]	96
Nickel-Dissolved	µg/L	1	Metals-022	[NT]	3	<1	[NT]		[NT]	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	[NT]	3	4	[NT]		[NT]	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	25/09/2023	25/09/2023		[NT]	[NT]
Date analysed	-			[NT]	12	25/09/2023	25/09/2023		[NT]	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	[NT]	12	6	6	0	[NT]	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	[NT]	12	7	7	0	[NT]	[NT]
Copper-Dissolved	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Lead-Dissolved	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	[NT]	12	<0.05	[NT]		[NT]	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	[NT]	12	<1	<1	0	[NT]	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	[NT]	12	1	1	0	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			28/09/2023	1	28/09/2023	28/09/2023		28/09/2023	[NT]
Date analysed	-			28/09/2023	1	28/09/2023	28/09/2023		28/09/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	19	[NT]		96	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	1	510	550	8	112	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	2	28/09/2023	28/09/2023		[NT]	[NT]
Date analysed	-			[NT]	2	28/09/2023	28/09/2023		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	2	67	65	3	[NT]	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	[NT]	2	750	[NT]		[NT]	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-5
Date prepared	-			26/09/2023	3	26/09/2023	26/09/2023		26/09/2023	22/09/2023
Date analysed	-			26/09/2023	3	26/09/2023	26/09/2023		26/09/2023	22/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	3	0.047	0.043	9	107	108
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	3	0.013	0.011	17	109	99
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	3	0.013	0.012	8	103	101
6:2 FTS	µg/L	0.001	Org-029	<0.001	3	<0.001	<0.001	0	96	122
8:2 FTS	µg/L	0.002	Org-029	<0.002	3	<0.002	<0.002	0	99	108
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	103	3	101	104	3	105	93
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	101	3	101	105	4	104	92
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	84	3	70	86	21	87	95
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	81	3	74	89	18	77	111
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	108	3	97	119	20	100	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	138	3	134	171	24	124	103
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	163	3	175	#		150	85

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333663-2
Date prepared	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	29	29	0	98	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	7.6	7.6	0	95	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	66	64	3	100	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	5	5	0	97	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	1	91	91	0	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	[NT]		[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	92	[NT]		[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	[NT]		[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	92	[NT]		91	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	1	55	56	2	114	103
Chloride, Cl	mg/L	1	Inorg-081	<1	1	55	55	0	112	105

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	333663-3
Date prepared	-			[NT]	10	22/09/2023	22/09/2023		[NT]	22/09/2023
Date analysed	-			[NT]	10	22/09/2023	22/09/2023		[NT]	22/09/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	17	[NT]		[NT]	87
Potassium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	5.6	[NT]		[NT]	93
Sodium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	21	[NT]		[NT]	#
Magnesium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	2	[NT]		[NT]	94
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	10	53	[NT]		[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	50	50	0	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	50	50	0	[NT]	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	[NT]	10	23	[NT]		[NT]	[NT]
Chloride, Cl	mg/L	1	Inorg-081	[NT]	10	39	[NT]		[NT]	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	11	22/09/2023	22/09/2023		[NT]	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	88	[NT]		[NT]	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	15	[NT]		[NT]	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	20	[NT]		[NT]	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	5.1	[NT]		[NT]	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	11	240	[NT]		[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	<5	[NT]		[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	350	[NT]		[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	<5	[NT]		[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	350	[NT]		[NT]	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	[NT]	11	<1	<1	0	[NT]	[NT]
Chloride, Cl	mg/L	1	Inorg-081	[NT]	11	19	19	0	[NT]	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	22/09/2023	22/09/2023		[NT]	[NT]
Date analysed	-			[NT]	12	22/09/2023	22/09/2023		[NT]	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	[NT]	12	20	21	5	[NT]	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	[NT]	12	3	3	0	[NT]	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	[NT]	12	21	22	5	[NT]	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	[NT]	12	2	3	40	[NT]	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	12	61	63	3	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	[NT]	12	<5	[NT]		[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	12	85	[NT]		[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	12	<5	[NT]		[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	12	85	[NT]		[NT]	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	[NT]	12	7	[NT]		[NT]	[NT]
Chloride, Cl	mg/L	1	Inorg-081	[NT]	12	30	[NT]		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Ion Balance - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

TRH Water(C10-C40) NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 333663-9 have caused interference.

VOCs in water - The PQL for samples 333663-5,6,8,10,11 and 12 have been raised due to the high concentration of analytes in the samples, resulting in the samples requiring a dilution.

vTRH & BTEXN in Water NEPM - The PQL for samples 333663-5,6,8,10,11 and 12 have been raised due to the high concentration of analytes in the samples, resulting in the samples requiring a dilution.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

TDS value may be exagerated for sample #1,2 and 9 due to organic matter passing through the filter.
PQL has been raised due to interference from analytes (other than those being tested) in the sample/s.
PQL has been raised due to interference from analytes (other than those being tested) in the sample/s.

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	333663
Date Sample Received	21/09/2023
Date Instructions Received	21/09/2023
Date Results Expected to be Reported	29/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	14 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	7
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	OCPs in Water - Trace Level	OP in water LL ANZECCF/ADWG	PCBs in Water - Trace Level	Total Phenolicsin Water	HM in water - dissolved	Total Suspended Solids	Total Dissolved Solids(grav)	PFAS in Water LOW LEVEL Short	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl
209	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
210	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
302	✓	✓	✓		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
305	✓	✓	✓		✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
307	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
331	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
334	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
338	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW03	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW04	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW05	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip Spike/20230921		✓																						
Trip Blank/20230921		✓																						

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	Combo 3L	VOC	TPH (Silica Gel)	OCP, OPP, PCB (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	TRH/BTEX	Hold	Notes/ Preservation/ Additional Requirements
1	209	21-09-23	W	G/P	x		x	x		x		x			
2	210	21-09-23	W	G/P	x		x	x		x		x			
3	302	21-09-23	W	G/P	x		x			x	x	x			
4	305	21-09-23	W	G/P	x		x			x		x			
5	307	21-09-23	W	G/P	x		x	x	x	x	x	x			
6	331	21-09-23	W	G/P	x		x	x	x	x	x	x			
7	334	21-09-23	W	G/P	x		x	x	x	x	x	x			
8	338	21-09-23	W	G/P	x		x	x		x	x	x			
9	JBMW03	21-09-23	W	G/P	x		x	x	x	x	x	x			
10	JBMW04	21-09-23	W	G/P		x	x			x	x	x			
11	JBMW05	21-09-23	W	G/P		x	x	x	x	x	x	x			
12	JBMW12	21-09-23	W	G/P	x		x	x	x	x	x	x			
13	Trip Spike/20230921	21-09-23	W	G									x		
14	Trip Blank/20230921	21-09-23	W	G									x		

ENVIROLAB Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200
Job No: 333663
Date Received: 21/9/23
Time Received: 1720
Received By: KW
Temp: Cool/Ambient 7°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	14	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 4:00 pm, 21/9/23	**Date:**	21-09-23 **Signed:**

LAB RECEIPT
Lab Ref. No: 333663
Received by: Katy Wayne
Date & Time: 21/9/23 1720
Signed:

Envirolab Services Pty Ltd
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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 333663-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	Additional analysis 2 samples
Date samples received	21/09/2023
Date completed instructions received	04/10/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	11/10/2023
Date of Issue	11/10/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Liam Timmins, Organics Supervisor
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By
Nancy Zhang, Laboratory Manager

OCPs in Water - Trace Level			
Our Reference		333663-A-1	333663-A-2
Your Reference	UNITS	209	210
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date extracted	-	09/10/2023	09/10/2023
Date analysed	-	10/10/2023	10/10/2023
alpha-BHC	µg/L	0.017	0.003
HCB	µg/L	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002
pp-DDE	µg/L	0.016	0.003
Dieldrin	µg/L	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002
pp-DDD	µg/L	0.35	0.020
Endrin Aldehyde	µg/L	<0.001	<0.001
pp-DDT	µg/L	<0.001	<0.001
Endosulfan Sulphate	µg/L	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001
Surrogate TCMX	%	89	89

PFAS in Water LOW LEVEL Short			
Our Reference	UNITS	333663-A-1	333663-A-2
Your Reference		209	210
Date Sampled		21/09/2023	21/09/2023
Type of sample		Water	Water
Date prepared	-	09/10/2023	09/10/2023
Date analysed	-	09/10/2023	09/10/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.018	0.013
Perfluorooctanesulfonic acid PFOS	µg/L	0.054	0.030
Perfluorooctanoic acid PFOA	µg/L	0.005	0.005
6:2 FTS	µg/L	0.012	0.029
8:2 FTS	µg/L	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	99	105
Surrogate $^{13}C_2$ *PFOA*	%	99	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%	72	60
Extracted ISTD $^{13}C_4$ *PFOS*	%	79	69
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	#
Total Positive PFHxS & PFOS	µg/L	0.072	0.043
Total Positive PFOA & PFOS	µg/L	0.059	0.036
Total Positive PFAS	µg/L	0.090	0.077

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			09/10/2023	[NT]	[NT]	[NT]	[NT]	09/10/2023	[NT]
Date analysed	-			10/10/2023	[NT]	[NT]	[NT]	[NT]	10/10/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	72	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	70	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	60	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	88	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	88	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	92	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	74	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	96	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	113	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			09/10/2023	[NT]	[NT]	[NT]	[NT]	09/10/2023	[NT]
Date analysed	-			09/10/2023	[NT]	[NT]	[NT]	[NT]	09/10/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	93	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	91	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	88	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Samples were out of the recommended holding time for this analysis. OCP

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	333663-A
Date Sample Received	21/09/2023
Date Instructions Received	04/10/2023
Date Results Expected to be Reported	11/10/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analysis 2 samples
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	7
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Holding time exceedance OCP

Please contact the laboratory within 24 hours if you wish to cancel the aforementioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
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Sample ID	OCPs in Water - Trace Level	PFAS in Water LOW LEVEL Short	On Hold
209	✓	✓	
210	✓	✓	
302			✓
305			✓
307			✓
331			✓
334			✓
338			✓
JBMW03			✓
JBMW04			✓
JBMW05			✓
JBMW12			✓
Trip Spike/20230921			✓
Trip Blank/20230921			✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 333766

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	4 Water
Date samples received	22/09/2023
Date completed instructions received	22/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	29/09/2023
Date of Issue	29/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Priya Samarawickrama, Senior Chemist
Sean McAlary, Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date Extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date Analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10	<10
Bromomethane	µg/L	<10	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10	<10
1,1-Dichloroethene	µg/L	<1	<1	<1	<1
Trans-1,2-dichloroethene	µg/L	<1	<1	<1	<1
1,1-dichloroethane	µg/L	<1	<1	<1	<1
Cis-1,2-dichloroethene	µg/L	<1	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1	<1
Chloroform	µg/L	<1	<1	<1	<1
2,2-dichloropropane	µg/L	<1	<1	<1	<1
1,2-dichloroethane	µg/L	<1	<1	<1	<1
1,1,1-trichloroethane	µg/L	<1	<1	<1	<1
1,1-dichloropropene	µg/L	<1	<1	<1	<1
Cyclohexane	µg/L	1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1
Benzene	µg/L	4	<1	<1	<1
Dibromomethane	µg/L	<1	<1	<1	<1
1,2-dichloropropane	µg/L	<1	<1	<1	<1
Trichloroethene	µg/L	<1	<1	<1	<1
Bromodichloromethane	µg/L	<1	<1	<1	<1
trans-1,3-dichloropropene	µg/L	<1	<1	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1	<1
Toluene	µg/L	2,800	2	2	<1
1,3-dichloropropane	µg/L	<1	<1	<1	<1
Dibromochloromethane	µg/L	<1	<1	<1	<1
1,2-dibromoethane	µg/L	<1	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1	<1
Chlorobenzene	µg/L	<1	<1	<1	<1
Ethylbenzene	µg/L	2,100	9	6	1

VOCs in water					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Bromoform	µg/L	<1	<1	<1	<1
m+p-xylene	µg/L	6,400	4	280	<2
Styrene	µg/L	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1	<1
o-xylene	µg/L	3,300	6	64	1
1,2,3-trichloropropane	µg/L	<1	<1	<1	<1
Isopropylbenzene	µg/L	43	1	1	<1
Bromobenzene	µg/L	<1	<1	<1	<1
n-propyl benzene	µg/L	65	<1	1	<1
2-chlorotoluene	µg/L	<1	<1	<1	<1
4-chlorotoluene	µg/L	<1	<1	<1	<1
1,3,5-trimethyl benzene	µg/L	300	<1	50	<1
Tert-butyl benzene	µg/L	<1	<1	<1	<1
1,2,4-trimethyl benzene	µg/L	1,100	2	150	<1
1,3-dichlorobenzene	µg/L	<1	<1	<1	<1
Sec-butyl benzene	µg/L	6	<1	<1	<1
1,4-dichlorobenzene	µg/L	<1	<1	<1	<1
4-isopropyl toluene	µg/L	8	<1	2	<1
1,2-dichlorobenzene	µg/L	<1	<1	<1	<1
n-butyl benzene	µg/L	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<1	<1	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	102	103	106	104
Surrogate Toluene-d8	%	100	99	100	99
Surrogate 4-Bromofluorobenzene	%	90	97	79	96

vTRH(C6-C10)/BTEXN in Water					
Our Reference	UNITS	333766-1	333766-2	333766-3	333766-4
Your Reference		MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	28/09/2023	28/09/2023	28/09/2023	28/09/2023
TRH C_6 - C_9	µg/L	14,000	22	320	<10
TRH C_6 - C_{10}	µg/L	20,000	34	680	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	5,400	13	330	<10
Benzene	µg/L	4	<1	<1	<1
Toluene	µg/L	2,800	2	2	<1
Ethylbenzene	µg/L	2,100	9	6	1
m+p-xylene	µg/L	6,400	4	280	<2
o-xylene	µg/L	3,300	6	64	1
Naphthalene	µg/L	150	11	23	14
Surrogate Dibromofluoromethane	%	102	103	106	104
Surrogate Toluene-d8	%	100	99	100	99
Surrogate 4-Bromofluorobenzene	%	90	97	79	96

svTRH (C10-C40) in Water					
Our Reference	UNITS	333766-1	333766-2	333766-3	333766-4
Your Reference		MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023
TRH C_{10} - C_{14}	µg/L	3,900	170	1,100	130
TRH C_{15} - C_{28}	µg/L	500	110	600	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	4,400	280	1,700	130
TRH >C_{10} - C_{16}	µg/L	2,300	180	1,200	130
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	2,200	170	1,200	120
TRH >C_{16} - C_{34}	µg/L	350	<100	410	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	2,700	180	1,600	130
Surrogate o-Terphenyl	%	100	81	86	80

sTPH in Water (C10-C40) NEPM Silica gel					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023
TPH C_{10} - C_{14}	µg/L	1,900	60	230	64
TPH C_{15} - C_{28}	µg/L	<100	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	850	62	200	56
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100
Surrogate o-Terphenyl	%	79	75	67	77

PAHs in Water					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Naphthalene	µg/L	62	5.1	3.2	8.5
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	62	5.1	3.2	8.5
Surrogate p-Terphenyl-d14	%	105	85	83	84

Total Phenolics in Water					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Total Phenolics (as Phenol)	mg/L	0.08	<0.05	<0.05	<0.05

HM in water - dissolved					
Our Reference		333766-1	333766-2	333766-3	333766-4
Your Reference	UNITS	MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	1	1	3	2
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	3	2	1	3
Copper-Dissolved	µg/L	<1	<1	<1	<1
Lead-Dissolved	µg/L	<1	<1	<1	5
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	4	19	4	19
Zinc-Dissolved	µg/L	2	11	23	39

Miscellaneous Inorganics					
Our Reference	UNITS	333766-1	333766-2	333766-3	333766-4
Your Reference		MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Total Suspended Solids	mg/L	39	10	54	40
Total Dissolved Solids (grav)	mg/L	330	640	200	950

PFAS in Water LOW LEVEL Short					
Our Reference	UNITS	333766-1	333766-2	333766-3	333766-4
Your Reference		MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.014	0.011	0.018	0.005
Perfluorooctanesulfonic acid PFOS	µg/L	0.029	0.009	0.042	0.011
Perfluorooctanoic acid PFOA	µg/L	0.027	0.013	0.010	0.003
6:2 FTS	µg/L	0.51	0.47	0.051	0.076
8:2 FTS	µg/L	<0.002	<0.002	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	99	95	99	99
Surrogate $^{13}C_2$ *PFOA*	%	93	101	99	94
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98	104	109	107
Extracted ISTD $^{13}C_4$ *PFOS*	%	107	116	112	105
Extracted ISTD $^{13}C_4$ *PFOA*	%	85	93	97	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	144	119	192	125
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	150	#	131
Total Positive PFHxS & PFOS	µg/L	0.043	0.020	0.060	0.017
Total Positive PFOA & PFOS	µg/L	0.056	0.022	0.052	0.015
Total Positive PFAS	µg/L	0.58	0.51	0.12	0.096

Ion Balance					
Our Reference	UNITS	333766-1	333766-2	333766-3	333766-4
Your Reference		MW40-S	MW40-D	MW41-S	MW41-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	32	89	13	140
Potassium - Dissolved	mg/L	7.4	24	5	19
Sodium - Dissolved	mg/L	33	39	28	56
Magnesium - Dissolved	mg/L	3	15	2	15
Hardness	mgCaCO 3 /L	93	280	41	420
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	67	19	30	17
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	67	19	30	17
Sulphate, SO4	mg/L	82	430	48	640
Chloride, Cl	mg/L	42	33	41	36
Ionic Balance	%	-10	-12	-13	-13

Method ID	Methodology Summary
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date Extracted	-			28/09/2023	4	26/09/2023	28/09/2023		26/09/2023	[NT]
Date Analysed	-			28/09/2023	4	28/09/2023	28/09/2023		28/09/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	4	<10	<10	0	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	92	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	4	<1	<1	0	90	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	91	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	88	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	4	<1	<1	0	85	[NT]
Dibromomethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	4	<1	<1	0	92	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	4	<1	<1	0	87	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	4	<1	<1	0	103	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	4	<1	<1	0	94	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	4	<1	<1	0	99	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	4	1	1	0	109	[NT]
Bromoform	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	4	<2	<2	0	112	[NT]
Styrene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
o-xylene	µg/L	1	Org-023	<1	4	1	1	0	109	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	4	104	102	2	98	[NT]
Surrogate Toluene-d8	%		Org-023	98	4	99	100	1	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	107	4	96	100	4	105	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			28/09/2023	4	26/09/2023	28/09/2023		26/09/2023	[NT]
Date analysed	-			28/09/2023	4	28/09/2023	28/09/2023		28/09/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	4	<10	<10	0	104	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	4	<10	<10	0	104	[NT]
Benzene	µg/L	1	Org-023	<1	4	<1	<1	0	85	[NT]
Toluene	µg/L	1	Org-023	<1	4	<1	<1	0	103	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	4	1	1	0	109	[NT]
m+p-xylene	µg/L	2	Org-023	<2	4	<2	<2	0	112	[NT]
o-xylene	µg/L	1	Org-023	<1	4	1	1	0	109	[NT]
Naphthalene	µg/L	1	Org-023	<1	4	14	19	30	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	4	104	102	2	98	[NT]
Surrogate Toluene-d8	%		Org-023	98	4	99	100	1	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	107	4	96	100	4	105	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	86	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			28/09/2023	[NT]	[NT]	[NT]	[NT]	28/09/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	97	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	73	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	97	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Total Phenolics in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Date analysed	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	1	0.08	0.09	12	104	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Date analysed	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	1	1	0	98	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	98	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	3	3	0	105	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	104	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	102	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	89	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	4	4	0	96	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	2	2	0	104	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	[NT]
Date analysed	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	39	38	3	95	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	1	330	320	3	98	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Date analysed	-			27/09/2023	[NT]	[NT]	[NT]	[NT]	27/09/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	105	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	98	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	98	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	111	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	81	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	76	[NT]	[NT]	[NT]	[NT]	76	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	88	[NT]	[NT]	[NT]	[NT]	81	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333766-2
Date prepared	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Date analysed	-			22/09/2023	1	22/09/2023	22/09/2023		22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	32	33	3	102	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	7.4	7.6	3	97	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	33	33	0	101	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	3	3	0	102	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	1	93	97	4	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	67	66	2	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	67	66	2	87	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	1	82	82	0	119	#
Chloride, Cl	mg/L	1	Inorg-081	<1	1	42	42	0	112	109
Ionic Balance	%		Inorg-040	[NT]	1	-10	-8.0	-22	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Sulphate, SO4 by IC: # Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

sample #2 TDS may be exagerated due to organic matter passing through the filter.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	333766
Date Sample Received	22/09/2023
Date Instructions Received	22/09/2023
Date Results Expected to be Reported	29/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	1
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Sample #3 1x40mL HCL vial received broken in transit.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	Total Phenolicsin Water	HM in water - dissolved	Total Suspended Solids	Total Dissolved Solids(grav)	PFAS in Water LOW LEVEL Short	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance
MW40-S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW40-D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW41-S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW41-D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au				12 Ashley St, Chatswood NSW 2067
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day			**Attn:**	Sample Receipt
					(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	If YES, then handle, transport and store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	VOC	TPH (Silica Gel)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS								Notes/ Preservation/ Additional Requirements
1	MW40-S	22-09-23	W	G/P	x	x	x	x	x	x								
2	MW40-D	22-09-23	W	G/P	x	x	x	x	x	x								
3	MW41-S	22-09-23	W	G/P	x	x	x	x	x	x								
4	MW41-D	22-09-23	W	G/P	x	x	x	x	x	x								

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 333766.
Date Received: 22/9/23
Time Received: 1500
Received By: GW
Temp: Cool/Ambient
~~Cooling: Ice/Icepack~~ 1°C.
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	4	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 3:30 pm, 22/9/23	**Date:**	22-09-23 **Signed:**

LAB RECEIPT

Lab Ref. No:	333766.
Received by:	MILY W.
Date & Time:	22/9/23 1500
Signed:	GW.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 333761

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	8 Water
Date samples received	22/09/2023
Date completed instructions received	22/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	29/09/2023
Date of Issue	29/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Loren Bardwell, Development Chemist
Priya Samarawickrama, Senior Chemist
Sean McAlary, Chemist

Authorised By
Nancy Zhang, Laboratory Manager

PAHs in Water						
Our Reference		333761-1	333761-2	333761-3	333761-4	333761-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	27/09/2023	27/09/2023	26/09/2023	26/09/2023	27/09/2023
Naphthalene	µg/L	0.1	<0.1	2.8	<0.1	6.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	1.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	1.2	<0.1	2.8	<0.1	6.1
Surrogate p-Terphenyl-d14	%	88	70	104	105	92

PAHs in Water		
Our Reference		333761-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Date extracted	-	26/09/2023
Date analysed	-	27/09/2023
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	92

OCPs in Water - Trace Level			
Our Reference	UNITS	333761-3	333761-4
Your Reference		WG230-S	WG233-I
Date Sampled		22/09/2023	22/09/2023
Type of sample		Water	Water
Date extracted	-	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023
alpha-BHC	µg/L	<0.001	<0.001
HCB	µg/L	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002
pp-DDE	µg/L	<0.001	<0.001
Dieldrin	µg/L	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002
pp-DDD	µg/L	<0.001	<0.001
Endrin Aldehyde	µg/L	<0.001	<0.001
pp-DDT	µg/L	<0.001	<0.001
Endosulfan Sulphate	µg/L	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001
Surrogate TCMX	%	92	95

OP in water LL ANZECCF/ADWG			
Our Reference	UNITS	333761-3	333761-4
Your Reference		WG230-S	WG233-I
Date Sampled		22/09/2023	22/09/2023
Type of sample		Water	Water
Date extracted	-	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023
Dichlorvos	µg/L	<0.05	<0.05
Mevinphos	µg/L	<0.05	<0.05
Phorate	µg/L	<0.05	<0.05
Dimethoate	µg/L	<0.1	<0.1
Diazinon	µg/L	<0.01	<0.01
Disulfoton	µg/L	<0.05	<0.05
Chlorpyriphos-methyl	µg/L	<0.05	<0.05
Parathion-Methyl	µg/L	<0.05	<0.05
Ronnel	µg/L	<0.05	<0.05
Fenitrothion	µg/L	<0.05	<0.05
Malathion	µg/L	<0.05	<0.05
Chlorpyriphos	µg/L	<0.009	<0.009
Fenthion	µg/L	<0.05	<0.05
Parathion	µg/L	<0.004	<0.004
Bromophos ethyl	µg/L	<0.05	<0.05
Methidathion	µg/L	<0.05	<0.05
Fenamiphos	µg/L	<0.05	<0.05
Ethion	µg/L	<0.05	<0.05
Phosalone	µg/L	<0.05	<0.05
Azinphos-methyl (Guthion)	µg/L	<0.2	<0.2
Coumaphos	µg/L	<0.05	<0.05
Surrogate TCMX	%	92	95

PCBs in Water - Trace Level			
Our Reference		333761-3	333761-4
Your Reference	UNITS	WG230-S	WG233-I
Date Sampled		22/09/2023	22/09/2023
Type of sample		Water	Water
Date extracted	-	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	26/09/2023
Aroclor 1016	µg/L	<0.01	<0.01
Aroclor 1221	µg/L	<0.01	<0.01
Aroclor 1232	µg/L	<0.01	<0.01
Aroclor 1242	µg/L	<0.01	<0.01
Aroclor 1248	µg/L	<0.01	<0.01
Aroclor 1254	µg/L	<0.01	<0.01
Aroclor 1260	µg/L	<0.01	<0.01
Surrogate TCMX	%	92	95

Total Phenolics in Water						
Our Reference		333761-1	333761-2	333761-3	333761-4	333761-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Total Phenolics in Water		
Our Reference		333761-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Date extracted	-	25/09/2023
Date analysed	-	25/09/2023
Total Phenolics (as Phenol)	mg/L	<0.05

HM in water - dissolved						
Our Reference		333761-1	333761-2	333761-3	333761-4	333761-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Date analysed	-	25/09/2023	25/09/2023	25/09/2023	25/09/2023	25/09/2023
Arsenic-Dissolved	µg/L	5	1	22	1	26
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	3	<1	5	<1	<1
Copper-Dissolved	µg/L	<1	<1	3	<1	<1
Lead-Dissolved	µg/L	<1	<1	5	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	1	<1	12	<1	<1
Zinc-Dissolved	µg/L	<1	1	45	<1	1

HM in water - dissolved		
Our Reference		333761-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Date prepared	-	25/09/2023
Date analysed	-	25/09/2023
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	<1

Miscellaneous Inorganics						
Our Reference		333761-1	333761-2	333761-3	333761-4	333761-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Total Suspended Solids	mg/L	10	8	19	120	10
Total Dissolved Solids (grav)	mg/L	500	300	310	270	1,600

PFAS in Water LOW LEVEL Short						
Our Reference		333761-1	333761-3	333761-4	333761-5	333761-6
Your Reference	UNITS	WG229-I	WG230-S	WG233-I	WG233-D	Rinsate 1/20230922
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.020	0.014	0.038	0.060	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	0.025	0.027	0.15	0.13	<0.001
Perfluorooctanoic acid PFOA	µg/L	0.054	0.007	0.036	0.021	<0.001
6:2 FTS	µg/L	0.91	0.086	0.078	0.053	<0.001
8:2 FTS	µg/L	0.009	0.003	<0.002	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	96	101	102	98	95
Surrogate $^{13}C_2$ *PFOA*	%	96	101	100	102	90
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98	105	104	109	102
Extracted ISTD $^{13}C_4$ *PFOS*	%	118	111	103	113	107
Extracted ISTD $^{13}C_4$ *PFOA*	%	81	97	99	107	94
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	135	141	130	159	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	172	144	152	127
Total Positive PFHxS & PFOS	µg/L	0.045	0.041	0.19	0.19	<0.001
Total Positive PFOA & PFOS	µg/L	0.079	0.035	0.19	0.15	<0.001
Total Positive PFAS	µg/L	1.0	0.14	0.30	0.26	<0.001

Ion Balance						
Our Reference	UNITS	333761-1	333761-2	333761-3	333761-4	333761-5
Your Reference		WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Date analysed	-	22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Calcium - Dissolved	mg/L	3	22	9.4	7.5	85
Potassium - Dissolved	mg/L	4	5.6	9.3	8.9	17
Sodium - Dissolved	mg/L	130	30	46	60	290
Magnesium - Dissolved	mg/L	2	9.4	3	5.6	32
Hardness	mgCaCO 3 /L	16	94	34	42	340
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	190	15	42	59	58
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	190	15	42	59	58
Sulphate, SO4	mg/L	49	110	79	83	2
Chloride, Cl	mg/L	64	43	42	70	780
Ionic Balance	%	-4.0	-7.0	-11	-14	-7.0

Method ID	Methodology Summary
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333761-2
Date extracted	-			26/09/2023	1	26/09/2023	26/09/2023		26/09/2023	26/09/2023
Date analysed	-			26/09/2023	1	27/09/2023	27/09/2023		26/09/2023	27/09/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	1	0.1	<0.1	0	97	125
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	114
Fluorene	µg/L	0.1	Org-022/025	<0.1	1	1.1	0.9	20	109	117
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	124
Anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	125
Pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	115	132
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	110
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	122
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	113	1	88	84	5	111	107

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	101	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	90	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	113	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	113	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	118	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	93	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	110	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: OP in water LL ANZECCF/ADWG						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Dichlorvos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	112	[NT]
Mevinphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Phorate	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dimethoate	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Diazinon	µg/L	0.01	Org-022/025	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Disulfoton	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorpyriphos-methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion-Methyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ronnel	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	102	[NT]
Fenitrothion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	95	[NT]
Malathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	105	[NT]
Chlorpyriphos	µg/L	0.009	Org-022/025	<0.009	[NT]	[NT]	[NT]	[NT]	105	[NT]
Fenthion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Parathion	µg/L	0.004	Org-022/025	<0.004	[NT]	[NT]	[NT]	[NT]	95	[NT]
Bromophos ethyl	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Methidathion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fenamiphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethion	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	93	[NT]
Phosalone	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Azinphos-methyl (Guthion)	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Coumaphos	µg/L	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PCBs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Aroclor 1016	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	131	[NT]
Aroclor 1260	µg/L	0.01	Org-021	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	100	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: Total Phenolics in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Date analysed	-			25/09/2023	1	25/09/2023	25/09/2023		25/09/2023	[NT]
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-031	<0.05	1	<0.05	<0.05	0	110	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Date analysed	-			25/09/2023	[NT]	[NT]	[NT]	[NT]	25/09/2023	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	101	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			27/09/2023	4	27/09/2023	27/09/2023		27/09/2023	[NT]
Date analysed	-			27/09/2023	4	27/09/2023	27/09/2023		27/09/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	4	120	120	0	96	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	4	270	[NT]		112	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	5	27/09/2023	27/09/2023		[NT]	[NT]
Date analysed	-			[NT]	5	27/09/2023	27/09/2023		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	5	10	[NT]		[NT]	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	[NT]	5	1600	1600	0	[NT]	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	333761-3
Date prepared	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Date analysed	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	27/09/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	1	0.020	0.020	0	105	113
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	1	0.025	0.026	4	98	91
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	1	0.054	0.054	0	98	102
6:2 FTS	µg/L	0.001	Org-029	<0.001	1	0.91	0.88	3	111	121
8:2 FTS	µg/L	0.002	Org-029	<0.002	1	0.009	0.009	0	101	114
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	105	1	96	99	3	104	97
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	1	96	93	3	98	96
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	84	1	98	100	2	81	106
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	76	1	118	113	4	76	117
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	88	1	81	82	1	81	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	90	1	135	136	1	84	151
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	106	1	#	#		93	175

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Date analysed	-			22/09/2023	[NT]	[NT]	[NT]	[NT]	22/09/2023	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	96	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	96	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	87	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	333761
Date Sample Received	22/09/2023
Date Instructions Received	22/09/2023
Date Results Expected to be Reported	29/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	8 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	OCPs in Water - Trace Level	OP in water LL ANZECCF/ADWG	PCBs in Water - Trace Level	Total Phenolicsin Water	HM in water - dissolved	Total Suspended Solids	Total Dissolved Solids(grav)	PFAS in Water LOW LEVEL Short	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance
WG229-I	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WG229-D	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WG230-S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WG233-I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WG233-D	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rinsate 1/20230922	✓	✓	✓		✓				✓	✓			✓													
Trip Spike/2023092		✓																								
Trip Blank/20230922		✓																								

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	VOC	TPH (silica gel)	TRH/BTEX	TSS, TDS	PFAS (short suite, low level)	OCP, OPP, PCB (trace)	Anions, Cations, Hardness						Notes/ Preservation/ Additional Requirements
1	WG229-I	22-09-23	W	G/P	x	x	x		x	x		x						
2 NR	WG229-D	22-09-23	W	G/P	x	x	x		x			x						
3 NR	WG230-S	22-09-23	W	G/P	x	x	x		x	x	x	x						
4 2	WG233-I	22-09-23	W	G/P	x	x	x		x	x	x	x						
5 3	WG233-D	22-09-23	W	G/P	x	x	x		x	x		x						
6 NR	Rinsate 1/20230922	22-09-23	W	G	x	x				x								Total metals
7 4	Trip Spike/20230922	22-09-23	W	G				x										
8 5	Trip Blank/20230922	22-09-23	W	G				x										

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

333761
Received: 22/9/23
By: 1500
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	7	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 3:30 pm, 22/9/23	**Date:**	22-09-23
		Signed:	

LAB RECEIPT

Lab Ref. No:	333761
Received by:	
Date & Time:	22/9/23, 1500
Signed:	

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 333761-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	8 Water
Date samples received	22/09/2023
Date completed instructions received	22/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	29/09/2023
Date of Issue	01/10/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Steven Luong, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference	UNITS	333761-A-1	333761-A-2	333761-A-3	333761-A-4	333761-A-5
Your Reference		WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	29/09/2023	29/09/2023	29/09/2023	29/09/2023	29/09/2023
Date Analysed	-	30/09/2023	30/09/2023	30/09/2023	30/09/2023	30/09/2023
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10	<10	1,700
Bromomethane	µg/L	<10	<10	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10	<10	<10
1,1-Dichloroethene	µg/L	<1	<1	<1	<1	360
Trans-1,2-dichloroethene	µg/L	<1	<1	<1	<1	220
1,1-dichloroethane	µg/L	<1	<1	<1	<1	570
Cis-1,2-dichloroethene	µg/L	1	26	<1	4	2,300
Bromochloromethane	µg/L	<1	<1	<1	<1	<1
Chloroform	µg/L	<1	<1	<1	<1	28
2,2-dichloropropane	µg/L	<1	<1	<1	<1	<1
1,2-dichloroethane	µg/L	4	41	<1	6	2,700
1,1,1-trichloroethane	µg/L	<1	<1	<1	<1	<1
1,1-dichloropropene	µg/L	<1	<1	<1	<1	1
Cyclohexane	µg/L	<1	<1	<1	<1	<1
Carbon tetrachloride	µg/L	<1	<1	<1	<1	<1
Benzene	µg/L	<1	<1	<1	<1	110
Dibromomethane	µg/L	<1	<1	<1	<1	<1
1,2-dichloropropane	µg/L	<1	<1	<1	<1	<1
Trichloroethene	µg/L	<1	1	<1	<1	990
Bromodichloromethane	µg/L	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	1	<1	4
1,3-dichloropropane	µg/L	<1	<1	<1	<1	<1
Dibromochloromethane	µg/L	<1	<1	<1	<1	<1
1,2-dibromoethane	µg/L	<1	<1	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1	<1	6
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<1
Chlorobenzene	µg/L	<1	<1	<1	<1	37
Ethylbenzene	µg/L	<1	<1	55	<1	5

VOCs in water						
Our Reference		333761-A-1	333761-A-2	333761-A-3	333761-A-4	333761-A-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	3	<2	2
Styrene	µg/L	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1	<1	<1
o-xylene	µg/L	<1	<1	5	<1	1
1,2,3-trichloropropane	µg/L	<1	<1	<1	<1	<1
Isopropylbenzene	µg/L	3	<1	5	<1	<1
Bromobenzene	µg/L	<1	<1	<1	<1	<1
n-propyl benzene	µg/L	3	<1	2	<1	<1
2-chlorotoluene	µg/L	<1	<1	<1	<1	<1
4-chlorotoluene	µg/L	<1	<1	<1	<1	<1
1,3,5-trimethyl benzene	µg/L	<1	<1	<1	<1	<1
Tert-butyl benzene	µg/L	<1	<1	<1	<1	<1
1,2,4-trimethyl benzene	µg/L	<1	<1	5	<1	<1
1,3-dichlorobenzene	µg/L	<1	<1	<1	<1	<1
Sec-butyl benzene	µg/L	<1	<1	<1	<1	<1
1,4-dichlorobenzene	µg/L	<1	<1	<1	<1	3
4-isopropyl toluene	µg/L	<1	<1	<1	<1	<1
1,2-dichlorobenzene	µg/L	<1	<1	<1	<1	3
n-butyl benzene	µg/L	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1	<1	<1
Hexachlorobutadiene	µg/L	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	105	104	104	104	103
Surrogate Toluene-d8	%	100	100	99	99	106
Surrogate 4-Bromofluorobenzene	%	102	101	100	101	103

VOCs in water		
Our Reference		333761-A-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Date Extracted	-	29/09/2023
Date Analysed	-	30/09/2023
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		333761-A-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	103
Surrogate Toluene-d8	%	99
Surrogate 4-Bromofluorobenzene	%	100

vTRH(C6-C10)/BTEXN in Water						
Our Reference		333761-A-1	333761-A-2	333761-A-3	333761-A-4	333761-A-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/09/2023	29/09/2023	29/09/2023	29/09/2023	29/09/2023
Date analysed	-	30/09/2023	30/09/2023	30/09/2023	30/09/2023	30/09/2023
TRH C_6 - C_9	µg/L	30	<10	89	<10	4,100
TRH C_6 - C_{10}	µg/L	45	<10	180	<10	4,400
TRH C_6 - C_{10} less BTEX (F1)	µg/L	45	<10	120	<10	4,200
Benzene	µg/L	<1	<1	<1	<1	110
Toluene	µg/L	<1	<1	1	<1	4
Ethylbenzene	µg/L	<1	<1	55	<1	5
m+p-xylene	µg/L	<2	<2	3	<2	2
o-xylene	µg/L	<1	<1	5	<1	1
Naphthalene	µg/L	<1	<1	6	<1	1
Surrogate Dibromofluoromethane	%	105	104	104	104	103
Surrogate Toluene-d8	%	100	100	99	99	106
Surrogate 4-Bromofluorobenzene	%	102	101	100	101	103

vTRH(C6-C10)/BTEXN in Water				
Our Reference		333761-A-6	333761-A-7	333761-A-8
Your Reference	UNITS	Rinsate 1/20230922	Trip Spike/2023092	Trip Blank/20230922
Date Sampled		22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water
Date extracted	-	29/09/2023	29/09/2023	29/09/2023
Date analysed	-	30/09/2023	30/09/2023	30/09/2023
TRH C_6 - C_9	µg/L	<10	[NA]	<10
TRH C_6 - C_{10}	µg/L	<10	[NA]	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	[NA]	<10
Benzene	µg/L	<1	99%	<1
Toluene	µg/L	<1	100%	<1
Ethylbenzene	µg/L	<1	104%	<1
m+p-xylene	µg/L	<2	106%	<2
o-xylene	µg/L	<1	103%	<1
Naphthalene	µg/L	<1	[NA]	<1
Surrogate Dibromofluoromethane	%	103	104	102
Surrogate Toluene-d8	%	99	102	99
Surrogate 4-Bromofluorobenzene	%	100	96	101

svTRH (C10-C40) in Water						
Our Reference		333761-A-1	333761-A-2	333761-A-3	333761-A-4	333761-A-5
Your Reference	UNITS	WG229-I	WG229-D	WG230-S	WG233-I	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/09/2023	26/09/2023	26/09/2023	26/09/2023	26/09/2023
Date analysed	-	26/09/2023	27/09/2023	27/09/2023	27/09/2023	27/09/2023
TRH C_{10} - C_{14}	µg/L	1,200	<50	140	<50	1,000
TRH C_{15} - C_{28}	µg/L	350	<100	110	<100	180
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	1,500	<50	250	<50	1,200
TRH >C_{10} - C_{16}	µg/L	1,300	<50	150	<50	1,000
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	1,300	<50	140	<50	1,000
TRH >C_{16} - C_{34}	µg/L	210	<100	<100	<100	110
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	1,500	<50	150	<50	1,100
Surrogate o-Terphenyl	%	106	66	86	90	92

svTRH (C10-C40) in Water		
Our Reference		333761-A-6
Your Reference	UNITS	Rinsate 1/20230922
Date Sampled		22/09/2023
Type of sample		Water
Date extracted	-	26/09/2023
Date analysed	-	27/09/2023
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	99

sTPH in Water (C10-C40) NEPM Silica gel				
Our Reference	UNITS	333761-A-1	333761-A-3	333761-A-5
Your Reference		WG229-I	WG230-S	WG233-D
Date Sampled		22/09/2023	22/09/2023	22/09/2023
Type of sample		Water	Water	Water
Date extracted	-	28/09/2023	28/09/2023	28/09/2023
Date analysed	-	29/09/2023	29/09/2023	29/09/2023
TPH C_{10} - C_{14}	µg/L	84	50	350
TPH C_{15} - C_{28}	µg/L	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	120	<50	350
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100
Surrogate o-Terphenyl	%	67	75	76

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date Extracted	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
Date Analysed	-			30/09/2023	[NT]	[NT]	[NT]	[NT]	30/09/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	100	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
Date analysed	-			30/09/2023	[NT]	[NT]	[NT]	[NT]	30/09/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	97	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	100	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
Date analysed	-			26/09/2023	[NT]	[NT]	[NT]	[NT]	26/09/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	89	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	89	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	105	[NT]	[NT]	[NT]	[NT]	70	[NT]

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			28/09/2023	[NT]	[NT]	[NT]	[NT]	28/09/2023	[NT]
Date analysed	-			29/09/2023	[NT]	[NT]	[NT]	[NT]	29/09/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	82	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	97	[NT]	[NT]	[NT]	[NT]	91	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

sTPH in Water (C10-C40)-Silica was not performed on samples 333761-A-2 and 4 as the TRH Water(C10-C40) NEPM result was less than the limit of reporting.

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CERTIFICATE OF ANALYSIS 333761-B

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	Additional PFAS analysis 1 sample
Date samples received	22/09/2023
Date completed instructions received	04/10/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	11/10/2023
Date of Issue	11/10/2023

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Results Approved By
Phalak Inthakesone, Organics Development Manager, Sydney

Authorised By
Nancy Zhang, Laboratory Manager

PFAS in Water LOW LEVEL Short		
Our Reference		333761-B-2
Your Reference	UNITS	WG229-D
Date Sampled		22/09/2023
Type of sample		Water
Date prepared	-	09/10/2023
Date analysed	-	09/10/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.015
Perfluorooctanesulfonic acid PFOS	µg/L	0.002
Perfluorooctanoic acid PFOA	µg/L	0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	99
Surrogate $^{13}C_2$ *PFOA*	%	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	86
Extracted ISTD $^{13}C_4$ *PFOS*	%	90
Extracted ISTD $^{13}C_4$ *PFOA*	%	121
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	129
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94
Total Positive PFHxS & PFOS	µg/L	0.017
Total Positive PFOA & PFOS	µg/L	0.003
Total Positive PFAS	µg/L	0.018

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			09/10/2023	[NT]	[NT]	[NT]	[NT]	09/10/2023	[NT]
Date analysed	-			09/10/2023	[NT]	[NT]	[NT]	[NT]	09/10/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	93	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	91	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	85	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	84	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	96	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	88	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	333761-B
Date Sample Received	22/09/2023
Date Instructions Received	04/10/2023
Date Results Expected to be Reported	11/10/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional PFAS analysis 1 sample
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	PFAS in Water LOW LEVEL Short	On Hold
WG229-I		✓
WG229-D	✓	
WG230-S		✓
WG233-I		✓
WG233-D		✓
Rinsate 1/20230922		✓
Trip Spike/20230922		✓
Trip Blank/20230922		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 337314

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	15 Water
Date samples received	08/11/2023
Date completed instructions received	08/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	16/11/2023
Date of Issue	16/11/2023

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Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Greta Petzold, Operation Manager
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Nancy Zhang, Laboratory Manager, Sydney
Priya Samarawickrama, Senior Chemist
Sean McAlary, Chemist
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date Analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Dichlorodifluoromethane	µg/L	<10	<10	<10000	<10000	<10
Chloromethane	µg/L	<10	<10	<10000	<10000	<10
Vinyl Chloride	µg/L	<10	<10	<10000	<10000	<10
Bromomethane	µg/L	<10	<10	<10000	<10000	<10
Chloroethane	µg/L	<10	<10	<10000	<10000	<10
Trichlorofluoromethane	µg/L	<10	<10	<10000	<10000	<10
1,1-Dichloroethene	µg/L	<1	<1	<1000	<1000	<1
Trans-1,2-dichloroethene	µg/L	<1	<1	<1000	<1000	<1
1,1-dichloroethane	µg/L	<1	<1	<1000	<1000	<1
Cis-1,2-dichloroethene	µg/L	1	2	<1000	<1000	<1
Bromochloromethane	µg/L	<1	<1	<1000	<1000	<1
Chloroform	µg/L	<1	2	<1000	<1000	<1
2,2-dichloropropane	µg/L	<1	<1	<1000	<1000	<1
1,2-dichloroethane	µg/L	6	<1	<1000	<1000	<1
1,1,1-trichloroethane	µg/L	<1	<1	<1000	<1000	<1
1,1-dichloropropene	µg/L	<1	<1	<1000	<1000	<1
Cyclohexane	µg/L	2	<1	<1000	<1000	2
Carbon tetrachloride	µg/L	<1	<1	<1000	<1000	<1
Benzene	µg/L	<1	11	<1000	<1000	<1
Dibromomethane	µg/L	<1	<1	<1000	<1000	<1
1,2-dichloropropane	µg/L	<1	<1	<1000	<1000	<1
Trichloroethene	µg/L	<1	<1	<1000	<1000	<1
Bromodichloromethane	µg/L	<1	<1	<1000	<1000	<1
trans-1,3-dichloropropene	µg/L	<1	<1	<1000	<1000	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1000	<1000	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1000	<1000	<1
Toluene	µg/L	200	39	190,000	160,000	7
1,3-dichloropropane	µg/L	<1	<1	<1000	<1000	<1
Dibromochloromethane	µg/L	<1	<1	<1000	<1000	<1
1,2-dibromoethane	µg/L	<1	<1	<1000	<1000	<1
Tetrachloroethene	µg/L	<1	<1	<1000	<1000	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1000	<1000	<1
Chlorobenzene	µg/L	<1	<1	<1000	<1000	<1
Ethylbenzene	µg/L	60	10	56,000	46,000	66

VOCs in water						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<1	<1	<1000	<1000	<1
m+p-xylene	µg/L	23	89	19,000	19,000	65
Styrene	µg/L	<1	<1	<1000	<1000	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1000	<1000	<1
o-xylene	µg/L	8	2	7,100	6,900	14
1,2,3-trichloropropane	µg/L	<1	<1	<1000	<1000	<1
Isopropylbenzene	µg/L	25	4	<1000	<1000	4
Bromobenzene	µg/L	<1	<1	<1000	<1000	<1
n-propyl benzene	µg/L	18	3	<1000	<1000	4
2-chlorotoluene	µg/L	<1	<1	<1000	<1000	<1
4-chlorotoluene	µg/L	<1	<1	<1000	<1000	<1
1,3,5-trimethyl benzene	µg/L	<1	2	<1000	<1000	4
Tert-butyl benzene	µg/L	<1	<1	<1000	<1000	<1
1,2,4-trimethyl benzene	µg/L	4	8	<1000	<1000	14
1,3-dichlorobenzene	µg/L	<1	<1	<1000	<1000	<1
Sec-butyl benzene	µg/L	3	<1	<1000	<1000	<1
1,4-dichlorobenzene	µg/L	<1	<1	<1000	<1000	<1
4-isopropyl toluene	µg/L	<1	<1	<1000	<1000	1
1,2-dichlorobenzene	µg/L	<1	<1	<1000	<1000	<1
n-butyl benzene	µg/L	2	<1	<1000	<1000	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1000	<1000	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1000	<1000	<1
Hexachlorobutadiene	µg/L	<1	<1	<1000	<1000	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1000	<1000	<1
Surrogate Dibromofluoromethane	%	100	102	98	98	100
Surrogate Toluene-d8	%	100	102	99	99	100
Surrogate 4-Bromofluorobenzene	%	95	96	98	100	90

VOCs in water						
Our Reference	UNITS	337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference		334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date Analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Dichlorodifluoromethane	µg/L	<10	<100	<100	<1000	<1000
Chloromethane	µg/L	<10	<100	<100	<1000	<1000
Vinyl Chloride	µg/L	<10	<100	<100	<1000	<1000
Bromomethane	µg/L	<10	<100	<100	<1000	<1000
Chloroethane	µg/L	<10	<100	<100	<1000	<1000
Trichlorofluoromethane	µg/L	<10	<100	<100	<1000	<1000
1,1-Dichloroethene	µg/L	<1	<10	<10	<100	<100
Trans-1,2-dichloroethene	µg/L	<1	<10	<10	<100	<100
1,1-dichloroethane	µg/L	<1	<10	<10	<100	<100
Cis-1,2-dichloroethene	µg/L	<1	<10	<10	<100	<100
Bromochloromethane	µg/L	<1	<10	<10	<100	<100
Chloroform	µg/L	<1	<10	<10	<100	<100
2,2-dichloropropane	µg/L	<1	<10	<10	<100	<100
1,2-dichloroethane	µg/L	<1	<10	<10	<100	<100
1,1,1-trichloroethane	µg/L	<1	<10	<10	<100	<100
1,1-dichloropropene	µg/L	<1	<10	<10	<100	<100
Cyclohexane	µg/L	3	<10	<10	<100	<100
Carbon tetrachloride	µg/L	<1	<10	<10	<100	<100
Benzene	µg/L	<1	<10	<10	6,500	6,200
Dibromomethane	µg/L	<1	<10	<10	<100	<100
1,2-dichloropropane	µg/L	<1	<10	<10	<100	<100
Trichloroethene	µg/L	<1	<10	<10	<100	<100
Bromodichloromethane	µg/L	<1	<10	<10	<100	<100
trans-1,3-dichloropropene	µg/L	<1	<10	<10	<100	<100
cis-1,3-dichloropropene	µg/L	<1	<10	<10	<100	<100
1,1,2-trichloroethane	µg/L	<1	<10	<10	<100	<100
Toluene	µg/L	5	<10	<10	55,000	45,000
1,3-dichloropropane	µg/L	<1	<10	<10	<100	<100
Dibromochloromethane	µg/L	<1	<10	<10	<100	<100
1,2-dibromoethane	µg/L	<1	<10	<10	<100	<100
Tetrachloroethene	µg/L	<1	<10	<10	<100	<100
1,1,1,2-tetrachloroethane	µg/L	<1	<10	<10	<100	<100
Chlorobenzene	µg/L	<1	<10	<10	<100	<100
Ethylbenzene	µg/L	51	680	430	1,600	1,600

VOCs in water						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<1	<10	<10	<100	<100
m+p-xylene	µg/L	45	91	63	1,400	1,400
Styrene	µg/L	<1	<10	<10	<100	<100
1,1,2,2-tetrachloroethane	µg/L	<1	<10	<10	<100	<100
o-xylene	µg/L	12	<10	<10	650	650
1,2,3-trichloropropane	µg/L	<1	<10	<10	<100	<100
Isopropylbenzene	µg/L	4	380	340	100	<100
Bromobenzene	µg/L	<1	<10	<10	<100	<100
n-propyl benzene	µg/L	4	380	350	120	110
2-chlorotoluene	µg/L	<1	<10	<10	<100	<100
4-chlorotoluene	µg/L	<1	<10	<10	<100	<100
1,3,5-trimethyl benzene	µg/L	4	60	49	190	180
Tert-butyl benzene	µg/L	<1	<10	<10	<100	<100
1,2,4-trimethyl benzene	µg/L	13	260	200	740	700
1,3-dichlorobenzene	µg/L	<1	<10	<10	<100	<100
Sec-butyl benzene	µg/L	<1	82	77	<100	<100
1,4-dichlorobenzene	µg/L	<1	<10	<10	<100	<100
4-isopropyl toluene	µg/L	2	14	10	<100	<100
1,2-dichlorobenzene	µg/L	<1	<10	<10	<100	<100
n-butyl benzene	µg/L	<1	26	20	<100	<100
1,2-dibromo-3-chloropropane	µg/L	<1	<10	<10	<100	<100
1,2,4-trichlorobenzene	µg/L	<1	<10	<10	<100	<100
Hexachlorobutadiene	µg/L	<1	<10	<10	<100	<100
1,2,3-trichlorobenzene	µg/L	<1	<10	<10	<100	<100
Surrogate Dibromofluoromethane	%	98	101	101	106	106
Surrogate Toluene-d8	%	98	100	100	104	104
Surrogate 4-Bromofluorobenzene	%	91	84	87	101	101

VOCs in water				
Our Reference		337314-11	337314-12	337314-15
Your Reference	UNITS	JBMW13	JBMW13(T)	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Date Extracted	-	15/11/2023	15/11/2023	15/11/2023
Date Analysed	-	16/11/2023	16/11/2023	16/11/2023
Dichlorodifluoromethane	µg/L	<1000	<1000	<10
Chloromethane	µg/L	<1000	<1000	<10
Vinyl Chloride	µg/L	<1000	<1000	<10
Bromomethane	µg/L	<1000	<1000	<10
Chloroethane	µg/L	<1000	<1000	<10
Trichlorofluoromethane	µg/L	<1000	<1000	<10
1,1-Dichloroethene	µg/L	<100	<100	<1
Trans-1,2-dichloroethene	µg/L	<100	<100	<1
1,1-dichloroethane	µg/L	<100	<100	<1
Cis-1,2-dichloroethene	µg/L	<100	<100	<1
Bromochloromethane	µg/L	<100	<100	<1
Chloroform	µg/L	<100	<100	3
2,2-dichloropropane	µg/L	<100	<100	<1
1,2-dichloroethane	µg/L	<100	<100	<1
1,1,1-trichloroethane	µg/L	<100	<100	<1
1,1-dichloropropene	µg/L	<100	<100	<1
Cyclohexane	µg/L	<100	<100	<1
Carbon tetrachloride	µg/L	<100	<100	<1
Benzene	µg/L	480	360	<1
Dibromomethane	µg/L	<100	<100	<1
1,2-dichloropropane	µg/L	<100	<100	<1
Trichloroethene	µg/L	<100	<100	<1
Bromodichloromethane	µg/L	<100	<100	<1
trans-1,3-dichloropropene	µg/L	<100	<100	<1
cis-1,3-dichloropropene	µg/L	<100	<100	<1
1,1,2-trichloroethane	µg/L	<100	<100	<1
Toluene	µg/L	7,300	4,700	<1
1,3-dichloropropane	µg/L	<100	<100	<1
Dibromochloromethane	µg/L	<100	<100	<1
1,2-dibromoethane	µg/L	<100	<100	<1
Tetrachloroethene	µg/L	<100	<100	<1
1,1,1,2-tetrachloroethane	µg/L	<100	<100	<1
Chlorobenzene	µg/L	<100	<100	<1
Ethylbenzene	µg/L	3,100	2,300	<1

VOCs in water				
Our Reference		337314-11	337314-12	337314-15
Your Reference	UNITS	JBMW13	JBMW13(T)	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Bromoform	µg/L	<100	<100	<1
m+p-xylene	µg/L	5,200	3,800	<2
Styrene	µg/L	<100	<100	<1
1,1,2,2-tetrachloroethane	µg/L	<100	<100	<1
o-xylene	µg/L	2,000	1,500	<1
1,2,3-trichloropropane	µg/L	<100	<100	<1
Isopropylbenzene	µg/L	180	170	<1
Bromobenzene	µg/L	<100	<100	<1
n-propyl benzene	µg/L	220	200	<1
2-chlorotoluene	µg/L	<100	<100	<1
4-chlorotoluene	µg/L	<100	<100	<1
1,3,5-trimethyl benzene	µg/L	490	430	<1
Tert-butyl benzene	µg/L	<100	<100	<1
1,2,4-trimethyl benzene	µg/L	1,800	1,600	<1
1,3-dichlorobenzene	µg/L	<100	<100	<1
Sec-butyl benzene	µg/L	<100	<100	<1
1,4-dichlorobenzene	µg/L	<100	<100	<1
4-isopropyl toluene	µg/L	<100	<100	<1
1,2-dichlorobenzene	µg/L	<100	<100	<1
n-butyl benzene	µg/L	<100	<100	<1
1,2-dibromo-3-chloropropane	µg/L	<100	<100	<1
1,2,4-trichlorobenzene	µg/L	<100	<100	<1
Hexachlorobutadiene	µg/L	<100	<100	<1
1,2,3-trichlorobenzene	µg/L	<100	<100	<1
Surrogate Dibromofluoromethane	%	100	101	101
Surrogate Toluene-d8	%	100	100	101
Surrogate 4-Bromofluorobenzene	%	95	95	101

PFAS in Water LOW LEVEL Short						
Our Reference		337314-1	337314-2	337314-3	337314-5	337314-9
Your Reference	UNITS	209	210	331	334	JBMW12
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.024	0.013	0.038	0.093	0.024
Perfluorooctanesulfonic acid PFOS	µg/L	0.12	0.053	0.12	0.075	0.047
Perfluorooctanoic acid PFOA	µg/L	0.005	0.007	0.047	0.099	0.018
6:2 FTS	µg/L	0.003	0.017	0.10	2.4	0.005
8:2 FTS	µg/L	<0.002	<0.002	0.007	0.003	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	100	103	98	103	99
Surrogate $^{13}C_2$ *PFOA*	%	97	100	97	98	98
Extracted ISTD $^{18}O_2$ *PFHxS*	%	85	76	72	72	80
Extracted ISTD $^{13}C_4$ *PFOS*	%	95	82	79	75	82
Extracted ISTD $^{13}C_4$ *PFOA*	%	121	102	97	61	116
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	#	#	168	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	#	#	#	#
Total Positive PFHxS & PFOS	µg/L	0.14	0.067	0.16	0.17	0.071
Total Positive PFOA & PFOS	µg/L	0.13	0.060	0.17	0.17	0.065
Total Positive PFAS	µg/L	0.15	0.090	0.32	2.7	0.094

PFAS in Water LOW LEVEL Short			
Our Reference		337314-11	337314-15
Your Reference	UNITS	JBMW13	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023
Type of sample		Water	Water
Date prepared	-	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.012	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	0.033	<0.001
Perfluorooctanoic acid PFOA	µg/L	0.011	<0.001
6:2 FTS	µg/L	0.004	<0.001
8:2 FTS	µg/L	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	101	100
Surrogate $^{13}C_2$ *PFOA*	%	94	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	80	81
Extracted ISTD $^{13}C_4$ *PFOS*	%	83	84
Extracted ISTD $^{13}C_4$ *PFOA*	%	113	107
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	135
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	182
Total Positive PFHxS & PFOS	µg/L	0.045	<0.001
Total Positive PFOA & PFOS	µg/L	0.044	<0.001
Total Positive PFAS	µg/L	0.060	<0.001

vTRH(C6-C10)/BTEXN in Water						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
TRH C_6 - C_9	µg/L	390	230	300,000	330,000	210
TRH C_6 - C_{10}	µg/L	450	240	380,000	340,000	250
TRH C_6 - C_{10} less BTEX (F1)	µg/L	160	86	110,000	100,000	97
Benzene	µg/L	<1	11	<1000	<1000	<1
Toluene	µg/L	200	39	190,000	160,000	7
Ethylbenzene	µg/L	60	10	56,000	46,000	66
m+p-xylene	µg/L	23	89	19,000	19,000	65
o-xylene	µg/L	8	2	7,100	6,900	14
Naphthalene	µg/L	3	9	<1000	<1000	2
Surrogate Dibromofluoromethane	%	100	102	98	98	100
Surrogate Toluene-d8	%	100	102	99	99	100
Surrogate 4-Bromofluorobenzene	%	95	96	98	100	90

vTRH(C6-C10)/BTEXN in Water						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/11/2023	15/11/2023	15/11/2023	15/11/2023	15/11/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
TRH C_6 - C_9	µg/L	160	1,100	820	96,000	74,000
TRH C_6 - C_{10}	µg/L	200	2,500	2,100	99,000	79,000
TRH C_6 - C_{10} less BTEX (F1)	µg/L	86	1,800	1,600	34,000	24,000
Benzene	µg/L	<1	<10	<10	6,500	6,200
Toluene	µg/L	5	<10	<10	55,000	45,000
Ethylbenzene	µg/L	51	680	430	1,600	1,600
m+p-xylene	µg/L	45	91	63	1,400	1,400
o-xylene	µg/L	12	<10	<10	650	650
Naphthalene	µg/L	1	21	16	<100	<100
Surrogate Dibromofluoromethane	%	98	101	101	106	106
Surrogate Toluene-d8	%	98	100	100	104	104
Surrogate 4-Bromofluorobenzene	%	91	84	87	101	101

vTRH(C6-C10)/BTEXN in Water						
Our Reference		337314-11	337314-12	337314-13	337314-14	337314-15
Your Reference	UNITS	JBMW13	JBMW13(T)	Trip Spike/20231108	Trip Blank/20231108	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	15/11/2023	15/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	16/11/2023	16/11/2023	10/11/2023	10/11/2023	10/11/2023
TRH C_6 - C_9	µg/L	25,000	18,000	[NA]	<10	<10
TRH C_6 - C_{10}	µg/L	29,000	21,000	[NA]	<10	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	11,000	8,800	[NA]	<10	<10
Benzene	µg/L	480	360	92%	<1	<1
Toluene	µg/L	7,300	4,700	94%	<1	<1
Ethylbenzene	µg/L	3,100	2,300	101%	<1	<1
m+p-xylene	µg/L	5,200	3,800	102%	<2	<2
o-xylene	µg/L	2,000	1,500	102%	<1	<1
Naphthalene	µg/L	<100	<100	[NA]	<1	<1
Surrogate Dibromofluoromethane	%	100	101	100	100	101
Surrogate Toluene-d8	%	100	100	99	100	101
Surrogate 4-Bromofluorobenzene	%	95	95	103	102	101

svTRH (C10-C40) in Water						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
TRH C_{10} - C_{14}	µg/L	370	1,900	1,900	2,400	1,000
TRH C_{15} - C_{28}	µg/L	240	520	900	670	2,000
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	110	330
Total +ve TRH (C10-C36)	µg/L	610	2,400	2,800	3,200	3,400
TRH >C_{10} - C_{16}	µg/L	350	1,300	1,800	1,600	1,200
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	350	1,300	1,800	1,600	1,200
TRH >C_{16} - C_{34}	µg/L	210	410	730	610	2,100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	170
Total +ve TRH (>C10-C40)	µg/L	560	1,700	2,500	2,300	3,400
Surrogate o-Terphenyl	%	95	101	119	116	#

svTRH (C10-C40) in Water						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
TRH C_{10} - C_{14}	µg/L	460	15,000	3,700	3,900	4,500
TRH C_{15} - C_{28}	µg/L	950	5,200	630	1,500	1,600
TRH C_{29} - C_{36}	µg/L	110	170	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	1,500	20,000	4,300	5,400	6,100
TRH >C_{10} - C_{16}	µg/L	530	14,000	2,800	3,300	3,300
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	530	14,000	2,800	3,300	3,300
TRH >C_{16} - C_{34}	µg/L	890	1,600	350	740	870
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	1,400	16,000	3,200	4,000	4,200
Surrogate o-Terphenyl	%	122	#	105	#	122

svTRH (C10-C40) in Water				
Our Reference		337314-11	337314-12	337314-15
Your Reference	UNITS	JBMW13	JBMW13(T)	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023
TRH C_{10} - C_{14}	µg/L	6,600	5,500	<50
TRH C_{15} - C_{28}	µg/L	1,300	800	<100
TRH C_{29} - C_{36}	µg/L	110	<100	<100
Total +ve TRH (C10-C36)	µg/L	8,000	6,300	<50
TRH >C_{10} - C_{16}	µg/L	3,600	2,500	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	3,600	2,500	<50
TRH >C_{16} - C_{34}	µg/L	880	560	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	4,500	3,000	<50
Surrogate o-Terphenyl	%	128	111	91

sTPH in Water (C10-C40) NEPM Silica gel						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	11/11/2023	11/11/2023	11/11/2023	11/11/2023	11/11/2023
TPH C_{10} - C_{14}	µg/L	85	85	940	740	<50
TPH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	71	86	350	250	<50
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate 1-Chlorooctadecane	%	78	90	100	76	79

sTPH in Water (C10-C40) NEPM Silica gel						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	11/11/2023	11/11/2023	11/11/2023	11/11/2023	11/11/2023
TPH C_{10} - C_{14}	µg/L	100	2,700	2,000	1,400	2,700
TPH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	160
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	96	1,700	1,300	480	980
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	150
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate 1-Chlorooctadecane	%	90	99	74	85	105

sTPH in Water (C10-C40) NEPM Silica gel			
Our Reference		337314-11	337314-12
Your Reference	UNITS	JBMW13	JBMW13(T)
Date Sampled		8/11/2023	8/11/2023
Type of sample		Water	Water
Date extracted	-	09/11/2023	09/11/2023
Date analysed	-	11/11/2023	11/11/2023
TPH C_{10} - C_{14}	µg/L	2,600	3,400
TPH C_{15} - C_{28}	µg/L	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100
TPH >C_{10} - C_{16}	µg/L	730	870
TPH >C_{16} - C_{34}	µg/L	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100
Surrogate 1-Chlorooctadecane	%	74	96

PAHs in Water						
Our Reference		337314-1	337314-2	337314-3	337314-5	337314-7
Your Reference	UNITS	209	210	331	334	JBMW05
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Naphthalene	µg/L	2.5	6.7	36	2	20
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	2.5	6.7	36	1.7	20
Surrogate p-Terphenyl-d14	%	85	85	93	84	89

PAHs in Water				
Our Reference		337314-9	337314-11	337314-15
Your Reference	UNITS	JBMW12	JBMW13	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023
Naphthalene	µg/L	38	100	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	38	100	<0.1
Surrogate p-Terphenyl-d14	%	79	105	97

Speciated Phenols in water						
Our Reference		337314-1	337314-2	337314-3	337314-5	337314-7
Your Reference	UNITS	209	210	331	334	JBMW05
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Phenol	µg/L	<1	1	<1	<1	<1
2-Chlorophenol	µg/L	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	µg/L	<5	<5	<5	<5	<5
2-Methylphenol (0-Cresol)	µg/L	<1	<1	14	<1	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	33	20	23	<2	<2
2-Nitrophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/L	<1	<1	<1	<1	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20	<20	<20
2346-Tetrachlorophenol	µg/L	<1	<1	<1	<1	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10	<10	<10	<10	<10
Pentachlorophenol	µg/L	<5	<5	<5	<5	<5
Surrogate 2-fluorophenol	%	35	30	#	39	40
Surrogate Phenol-d_6	%	35	29	30	35	29
Surrogate 2,4,6-Tribromophenol	%	109	108	118	112	119
Surrogate *p*-Terphenyl-d_{14}	%	102	103	93	100	111

Speciated Phenols in water				
Our Reference		337314-9	337314-11	337314-15
Your Reference	UNITS	JBMW12	JBMW13	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023
Phenol	µg/L	4	3	<1
2-Chlorophenol	µg/L	<1	<1	<1
4-Chloro-3-Methylphenol	µg/L	<5	<5	<5
2-Methylphenol (0-Cresol)	µg/L	38	30	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	66	34	<2
2-Nitrophenol	µg/L	<1	<1	<1
2,4-Dimethylphenol	µg/L	4	53	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20
2346-Tetrachlorophenol	µg/L	<1	<1	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10	<10	<10
Pentachlorophenol	µg/L	<5	<5	<5
Surrogate 2-fluorophenol	%	42	55	50
Surrogate Phenol-d_6	%	30	43	47
Surrogate 2,4,6-Tribromophenol	%	117	107	88
Surrogate *p*-Terphenyl-d_{14}	%	101	105	97

OCPs in Water - Trace Level						
Our Reference		337314-1	337314-2	337314-3	337314-5	337314-7
Your Reference	UNITS	209	210	331	334	JBMW05
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
alpha-BHC	µg/L	0.010	<0.001	0.072	<0.001	<0.001
HCB	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDE	µg/L	0.020	0.005	0.091	0.017	0.006
Dieldrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002	<0.002	<0.002	<0.002
pp-DDD	µg/L	0.36	0.024	0.91	0.050	0.005
Endrin Aldehyde	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
pp-DDT	µg/L	0.019	0.004	1.2	<0.001	0.022
Endosulfan Sulphate	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Surrogate TCMX	%	80	84	78	82	88

OCPs in Water - Trace Level		
Our Reference		337314-9
Your Reference	UNITS	JBMW12
Date Sampled		8/11/2023
Type of sample		Water
Date extracted	-	09/11/2023
Date analysed	-	10/11/2023
alpha-BHC	µg/L	0.088
HCB	µg/L	<0.001
beta-BHC	µg/L	<0.001
gamma-BHC	µg/L	<0.001
Heptachlor	µg/L	<0.001
delta-BHC	µg/L	<0.001
Aldrin	µg/L	<0.001
Heptachlor Epoxide	µg/L	<0.001
gamma-Chlordane	µg/L	<0.001
alpha-Chlordane	µg/L	<0.001
Endosulfan I	µg/L	<0.002
pp-DDE	µg/L	0.041
Dieldrin	µg/L	<0.001
Endrin	µg/L	<0.001
Endosulfan II	µg/L	<0.002
pp-DDD	µg/L	4.5
Endrin Aldehyde	µg/L	<0.001
pp-DDT	µg/L	0.032
Endosulfan Sulphate	µg/L	<0.001
Methoxychlor	µg/L	<0.001
Surrogate TCMX	%	83

HM in water - dissolved						
Our Reference		337314-1	337314-2	337314-3	337314-5	337314-7
Your Reference	UNITS	209	210	331	334	JBMW05
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Arsenic-Dissolved	µg/L	2	2	10	7	17
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	2	7	3	5	13
Copper-Dissolved	µg/L	<1	<1	2	4	1
Lead-Dissolved	µg/L	<1	<1	<1	3	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	<1	2	2	4	<1
Zinc-Dissolved	µg/L	<1	4	15	40	4

HM in water - dissolved				
Our Reference		337314-9	337314-11	337314-15
Your Reference	UNITS	JBMW12	JBMW13	Rinsate1/20231108
Date Sampled		8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023
Arsenic-Dissolved	µg/L	3	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	8	6	<1
Copper-Dissolved	µg/L	<1	<1	<1
Lead-Dissolved	µg/L	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	<1	<1	<1
Zinc-Dissolved	µg/L	5	2	<1

Ion Balance						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023
Date analysed	-	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023
Calcium - Dissolved	mg/L	15	7.2	92	94	100
Potassium - Dissolved	mg/L	7.3	5.1	5.5	5.6	13
Sodium - Dissolved	mg/L	47	35	11	11	52
Magnesium - Dissolved	mg/L	4	2	5	5	14
Hardness	mgCaCO 3 /L	53	24	250	250	310
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	120	53	280	270	460
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	120	53	280	270	460
Sulphate, SO4	mg/L	11	3	<1	<1	<1
Chloride, Cl	mg/L	40	29	19	18	68
Ionic Balance	%	-6.0	5.0	-4.0	-2.0	-11

Ion Balance						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023
Date analysed	-	08/11/2023	08/11/2023	08/11/2023	08/11/2023	08/11/2023
Calcium - Dissolved	mg/L	110	130	140	18	20
Potassium - Dissolved	mg/L	13	17	17	4	4
Sodium - Dissolved	mg/L	53	18	17	25	29
Magnesium - Dissolved	mg/L	14	8.3	8.8	2	3
Hardness	mgCaCO 3 /L	330	350	370	56	61
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	420	380	420	85	91
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	420	380	420	85	91
Sulphate, SO4	mg/L	<1	65	54	3	4
Chloride, Cl	mg/L	69	18	18	24	32
Ionic Balance	%	-6.0	-8.0	-8.0	-3.0	-4.0

Ion Balance			
Our Reference		337314-11	337314-12
Your Reference	UNITS	JBMW13	JBMW13(T)
Date Sampled		8/11/2023	8/11/2023
Type of sample		Water	Water
Date prepared	-	08/11/2023	08/11/2023
Date analysed	-	08/11/2023	08/11/2023
Calcium - Dissolved	mg/L	21	20
Potassium - Dissolved	mg/L	4	4
Sodium - Dissolved	mg/L	23	24
Magnesium - Dissolved	mg/L	2	2
Hardness	mgCaCO 3 /L	62	57
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	84	94
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	84	94
Sulphate, SO4	mg/L	2	1
Chloride, Cl	mg/L	22	23
Ionic Balance	%	0	-5.0

Miscellaneous Inorganics						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Total Suspended Solids	mg/L	8	24	43	47	100
Total Dissolved Solids (grav)	mg/L	340	360	370	390	600

Miscellaneous Inorganics						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Total Suspended Solids	mg/L	110	21	7	<5	52
Total Dissolved Solids (grav)	mg/L	590	620	490	210	260

Miscellaneous Inorganics			
Our Reference		337314-11	337314-12
Your Reference	UNITS	JBMW13	JBMW13(T)
Date Sampled		8/11/2023	8/11/2023
Type of sample		Water	Water
Date prepared	-	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023
Total Suspended Solids	mg/L	5	<5
Total Dissolved Solids (grav)	mg/L	150	110

Microbiologocal Testing						
Our Reference		337314-1	337314-2	337314-3	337314-4	337314-5
Your Reference	UNITS	209	210	331	331(T)	334
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<10	<10	<10	<10	<100

Microbiologocal Testing						
Our Reference		337314-6	337314-7	337314-8	337314-9	337314-10
Your Reference	UNITS	334(T)	JBMW05	JBMW05(T)	JBMW12	JBMW12(T)
Date Sampled		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<100	<10	<10	<10	<10

Microbiologocal Testing			
Our Reference		337314-11	337314-12
Your Reference	UNITS	JBMW13	JBMW13(T)
Date Sampled		8/11/2023	8/11/2023
Type of sample		Water	Water
Date of testing	-	09/11/2023	09/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<100	<10

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date Extracted	-			15/11/2023	[NT]	[NT]	[NT]	[NT]	15/11/2023	[NT]
Date Analysed	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Date analysed	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	1	0.024	0.025	4	101	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	1	0.12	0.13	8	93	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	1	0.005	0.005	0	91	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	1	0.003	0.003	0	82	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	1	<0.002	<0.002	0	95	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	107	1	100	106	6	101	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	103	1	97	97	0	104	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	74	1	85	80	6	83	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	67	1	95	88	8	75	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	90	1	121	116	4	99	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	115	1	#	#		126	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	130	1	#	#		152	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			15/11/2023	[NT]	[NT]	[NT]	[NT]	15/11/2023	[NT]
Date analysed	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337314-10
Date extracted	-			09/11/2023	4	09/11/2023	09/11/2023		09/11/2023	09/11/2023
Date analysed	-			09/11/2023	4	10/11/2023	10/11/2023		09/11/2023	10/11/2023
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	4	2400	2200	9	100	113
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	4	670	700	4	110	113
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	4	110	<100	10	100	117
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	4	1600	1500	6	100	113
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	4	610	650	6	110	113
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	4	<100	<100	0	100	117
Surrogate o-Terphenyl	%		Org-020	88	4	116	98	17	94	130

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			09/11/2023	4	09/11/2023	09/11/2023		09/11/2023	[NT]
Date analysed	-			11/11/2023	4	11/11/2023	11/11/2023		11/11/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	4	740	710	4	79	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	4	<100	<100	0	97	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	4	<100	<100	0	86	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	4	250	260	4	79	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	4	<100	<100	0	97	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	4	<100	<100	0	86	[NT]
Surrogate 1-Chlorooctadecane	%		Org-020	118	4	76	81	6	88	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/11/2023	[NT]	[NT]	[NT]	[NT]	09/11/2023	[NT]
Date analysed	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	89	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Speciated Phenols in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/11/2023	[NT]	[NT]	[NT]	[NT]	09/11/2023	[NT]
Date analysed	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Phenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	54	[NT]
2-Chlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
4-Chloro-3-Methylphenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Methylphenol (0-Cresol)	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
3/4-Methylphenol (m/p-Cresol)	µg/L	2	Org-022/025	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Nitrophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dimethylphenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,6-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
2,4,5-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,6-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dinitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-Nitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	111	[NT]
2346-Tetrachlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-methyl-4,6-Dinitrophenol	µg/L	10	Org-022/025	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Pentachlorophenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	126	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	58	[NT]	[NT]	[NT]	[NT]	68	[NT]
Surrogate Phenol-d_6	%		Org-022/025	45	[NT]	[NT]	[NT]	[NT]	53	[NT]
Surrogate 2,4,6-Tribromophenol	%		Org-022/025	90	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	106	[NT]	[NT]	[NT]	[NT]	125	[NT]

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			09/11/2023	[NT]	[NT]	[NT]	[NT]	09/11/2023	[NT]
Date analysed	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	104	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	105	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	97	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	104	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	109	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	122	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	108	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	104	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date prepared	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Date analysed	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	2	[NT]		92	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	[NT]		92	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	2	[NT]		96	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		94	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		91	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	107	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		94	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	<1	[NT]		95	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337314-2
Date prepared	-			08/11/2023	1	08/11/2023	08/11/2023		08/11/2023	08/11/2023
Date analysed	-			08/11/2023	1	08/11/2023	08/11/2023		08/11/2023	08/11/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	15	[NT]		101	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	7.3	[NT]		99	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	47	[NT]		100	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	4	[NT]		101	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	1	53	[NT]		[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	120	120	0	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	120	120	0	99	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	1	11	12	9	107	103
Chloride, Cl	mg/L	1	Inorg-081	<1	1	40	40	0	101	99
Ionic Balance	%		Inorg-040	[NT]	1	-6.0	[NT]		[NT]	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	10	08/11/2023	08/11/2023		[NT]	[NT]
Date analysed	-			[NT]	10	08/11/2023	08/11/2023		[NT]	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	20	20	0	[NT]	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	4	4	0	[NT]	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	29	29	0	[NT]	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	[NT]	10	3	3	0	[NT]	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	10	61	61	0	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	<5	[NT]		[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	91	[NT]		[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	<5	[NT]		[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	10	91	[NT]		[NT]	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	[NT]	10	4	[NT]		[NT]	[NT]
Chloride, Cl	mg/L	1	Inorg-081	[NT]	10	32	[NT]		[NT]	[NT]
Ionic Balance	%		Inorg-040	[NT]	10	-4.0	[NT]		[NT]	[NT]

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	08/11/2023	08/11/2023		[NT]	[NT]
Date analysed	-			[NT]	11	08/11/2023	08/11/2023		[NT]	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	21	[NT]		[NT]	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	4	[NT]		[NT]	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	23	[NT]		[NT]	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	[NT]	11	2	[NT]		[NT]	[NT]
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	11	62	[NT]		[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	84	88	5	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	[NT]	11	84	88	5	[NT]	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	[NT]	11	2	2	0	[NT]	[NT]
Chloride, Cl	mg/L	1	Inorg-081	[NT]	11	22	22	0	[NT]	[NT]
Ionic Balance	%		Inorg-040	[NT]	11	0	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Date analysed	-			10/11/2023	1	10/11/2023	10/11/2023		10/11/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	8	[NT]		88	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	1	340	340	0	109	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	10/11/2023	10/11/2023		[NT]	[NT]
Date analysed	-			[NT]	11	10/11/2023	10/11/2023		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	11	5	[NT]		[NT]	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	[NT]	11	150	[NT]		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

TRH Water(C10-C40) NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 337314-5,7,9 have caused interference.

PHEN_W_SPEC:
The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 337314-9.
Percent recovery for the surrogate/matrix spike is not possible to report due to interference from analytes (other than those being tested) in sample/s 337314-3.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Microbiology analysed by Sonic Food & Water Testing. Report No. W2326258-267
The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	337314
Date Sample Received	08/11/2023
Date Instructions Received	08/11/2023
Date Results Expected to be Reported	16/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	15 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	2
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in water	PFAS in Water LOW LEVEL Short	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	Speciated Phenols in water	OCPs in Water - Trace Level	HM in water - dissolved	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance	Total Suspended Solids	Total Dissolved Solids(grav)	Microbiologocal Testing
209	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
331	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
331(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
334	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
334(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW05	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW05(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW12(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW13	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JBMW13(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip Spike/20231108			✓																					
Trip Blank/20231108			✓																					
Rinsate1/20231108	✓	✓	✓	✓		✓	✓		✓															

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	TPH (Silica Gel)	VOC	TRH/BTEX	OCP (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Pseudomonas Aeruginosa	Hold			Notes/ Preservation/ Additional Requirements
1	209	8-11-23	W	G/P	x	x	x		x	x	x	x	x				Speciated phenols for all Combo 4L analysis
2	210	8-11-23	W	G/P	x	x	x		x	x	x	x	x				
3	331	8-11-23	W	G/P	x	x	x		x	x	x	x	x				
4	331(T)	8-11-23	W	G/P		x	x	x		x		x	x				
5	334	8-11-23	W	G/P	x	x	x		x	x	x	x	x				
6	334(T)	8-11-23	W	G/P		x	x	x		x		x	x				
7	JBMW05	8-11-23	W	G/P	x	x	x		x	x	x	x	x				
8	JBMW05(T)	8-11-23	W	G/P		x	x	x		x		x	x				
9	JBMW12	8-11-23	W	G/P	x	x	x		x	x	x	x	x				
10	JBMW12(T)	8-11-23	W	G/P		x	x	x		x		x	x				
11	JBMW13	8-11-23	W	G/P	x	x	x			x	x	x	x				
12	JBMW13(T)	8-11-23	W	G/P		x	x	x		x		x	x				
SO	BD1/20231108	8-11-23	W	G/P										x			Please forward for interlab analysis
SO	BD2/20231108	8-11-23	W	G/P										x			Please forward for interlab analysis

ENVIROLAB GROUP

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 337314
Date Received: 08/11/23
Time Received: 1710
Received By: GZ
Temp: Cool/Ambient 2°
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:		**LAB RECEIPT**	
Number of samples in container:	17	**Transported to laboratory by:**	DP	**Lab Ref. No:**	337314
Send results to:	Douglas Partners Pty Ltd			**Received by:**	GZ
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**	08/11/23 1710
Relinquished by:	PJ, 4:30 pm, 8/11/23	**Date:**	08-11-23	**Signed:**	

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	TPH (Silica Gel)	VOC	TRH/BTEX	OCP (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Pseudomonas Aeruginosa	Hold				Notes/ Preservation/ Additional Requirements
13	TripSpike/20231108	8-11-23	W	G/P				x										
14	Trip Blank/20231108	8-11-23	W	G/P				x										
15	Rinsate1/20231108	8-11-23	W	G/P	x		x				x						Total metals analysis for this sample	

Metals to analyse:				**LAB RECEIPT**	
Number of samples in container:	17	**Transported to laboratory by:**	DP	**Lab Ref. No:**	337314
Send results to:	Douglas Partners Pty Ltd			**Received by:**	GZ
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**	08/11/23 1710
Relinquished by:	PJ, 4:30 pm, 8/11/23	**Date:**	08-11-23	**Signed:**	

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CERTIFICATE OF ANALYSIS 337401

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	13 Water
Date samples received	09/11/2023
Date completed instructions received	09/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	17/11/2023
Date of Issue	17/11/2023

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Results Approved By
Dragana Tomas, Senior Chemist
Greta Petzold, Operation Manager
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Phalak Inthakesone, Organics Development Manager, Sydney
Priya Samarawickrama, Senior Chemist
Tim Toll, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Date Analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Dichlorodifluoromethane	µg/L	<1000	<1000	<1000	<1000	<1000
Chloromethane	µg/L	<1000	<1000	<1000	<1000	<1000
Vinyl Chloride	µg/L	<1000	<1000	<1000	<1000	<1000
Bromomethane	µg/L	<1000	<1000	<1000	<1000	<1000
Chloroethane	µg/L	<1000	<1000	<1000	<1000	<1000
Trichlorofluoromethane	µg/L	<1000	<1000	<1000	<1000	<1000
1,1-Dichloroethene	µg/L	<100	<100	<100	<100	<100
Trans-1,2-dichloroethene	µg/L	<100	<100	<100	<100	<100
1,1-dichloroethane	µg/L	<100	<100	<100	<100	<100
Cis-1,2-dichloroethene	µg/L	<100	<100	<100	<100	<100
Bromochloromethane	µg/L	<100	<100	<100	<100	<100
Chloroform	µg/L	<100	<100	<100	<100	<100
2,2-dichloropropane	µg/L	<100	<100	<100	<100	<100
1,2-dichloroethane	µg/L	<100	<100	<100	<100	<100
1,1,1-trichloroethane	µg/L	<100	<100	<100	<100	<100
1,1-dichloropropene	µg/L	<100	<100	<100	<100	<100
Cyclohexane	µg/L	<100	<100	<100	<100	<100
Carbon tetrachloride	µg/L	<100	<100	<100	<100	<100
Benzene	µg/L	<100	<100	<100	<100	3,900
Dibromomethane	µg/L	<100	<100	<100	<100	<100
1,2-dichloropropane	µg/L	<100	<100	<100	<100	<100
Trichloroethene	µg/L	<100	<100	<100	<100	<100
Bromodichloromethane	µg/L	<100	<100	<100	<100	<100
trans-1,3-dichloropropene	µg/L	<100	<100	<100	<100	<100
cis-1,3-dichloropropene	µg/L	<100	<100	<100	<100	<100
1,1,2-trichloroethane	µg/L	<100	<100	<100	<100	<100
Toluene	µg/L	<100	<100	<100	<100	46,000
1,3-dichloropropane	µg/L	<100	<100	<100	<100	<100
Dibromochloromethane	µg/L	<100	<100	<100	<100	<100
1,2-dibromoethane	µg/L	<100	<100	<100	<100	<100
Tetrachloroethene	µg/L	<100	<100	<100	<100	<100
1,1,1,2-tetrachloroethane	µg/L	<100	<100	<100	<100	<100
Chlorobenzene	µg/L	<100	<100	<100	<100	<100
Ethylbenzene	µg/L	580	1,300	1,100	1,200	3,100

VOCs in water						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<100	<100	<100	<100	<100
m+p-xylene	µg/L	3,000	6,900	1,300	1,500	4,600
Styrene	µg/L	<100	<100	<100	<100	<100
1,1,2,2-tetrachloroethane	µg/L	<100	<100	<100	<100	<100
o-xylene	µg/L	870	1,800	<100	<100	3,900
1,2,3-trichloropropane	µg/L	<100	<100	<100	<100	<100
Isopropylbenzene	µg/L	<100	<100	120	120	300
Bromobenzene	µg/L	<100	<100	<100	<100	<100
n-propyl benzene	µg/L	<100	120	160	160	650
2-chlorotoluene	µg/L	<100	<100	<100	<100	<100
4-chlorotoluene	µg/L	<100	<100	<100	<100	<100
1,3,5-trimethyl benzene	µg/L	120	300	170	250	2,300
Tert-butyl benzene	µg/L	<100	<100	<100	<100	<100
1,2,4-trimethyl benzene	µg/L	370	870	940	1,000	9,100
1,3-dichlorobenzene	µg/L	<100	<100	<100	<100	<100
Sec-butyl benzene	µg/L	<100	<100	<100	<100	<100
1,4-dichlorobenzene	µg/L	<100	<100	<100	<100	<100
4-isopropyl toluene	µg/L	<100	<100	<100	<100	<100
1,2-dichlorobenzene	µg/L	<100	<100	<100	<100	<100
n-butyl benzene	µg/L	<100	<100	<100	<100	<100
1,2-dibromo-3-chloropropane	µg/L	<100	<100	<100	<100	<100
1,2,4-trichlorobenzene	µg/L	<100	<100	<100	<100	<100
Hexachlorobutadiene	µg/L	<100	<100	<100	<100	<100
1,2,3-trichlorobenzene	µg/L	<100	<100	<100	<100	<100
Surrogate Dibromofluoromethane	%	101	101	101	100	104
Surrogate Toluene-d8	%	99	100	100	100	103
Surrogate 4-Bromofluorobenzene	%	94	90	98	98	96

VOCs in water						
Our Reference	UNITS	337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference		JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Date Analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Dichlorodifluoromethane	µg/L	<1000	<10	<10	<1000	<1000
Chloromethane	µg/L	<1000	<10	<10	<1000	<1000
Vinyl Chloride	µg/L	<1000	<10	<10	<1000	<1000
Bromomethane	µg/L	<1000	<10	<10	<1000	<1000
Chloroethane	µg/L	<1000	<10	<10	<1000	<1000
Trichlorofluoromethane	µg/L	<1000	<10	<10	<1000	<1000
1,1-Dichloroethene	µg/L	<100	<1	<1	<100	<100
Trans-1,2-dichloroethene	µg/L	<100	<1	<1	<100	<100
1,1-dichloroethane	µg/L	<100	<1	<1	<100	<100
Cis-1,2-dichloroethene	µg/L	<100	<1	<1	<100	<100
Bromochloromethane	µg/L	<100	<1	<1	<100	<100
Chloroform	µg/L	<100	<1	<1	<100	<100
2,2-dichloropropane	µg/L	<100	<1	<1	<100	<100
1,2-dichloroethane	µg/L	<100	<1	<1	<100	<100
1,1,1-trichloroethane	µg/L	<100	<1	<1	<100	<100
1,1-dichloropropene	µg/L	<100	<1	<1	<100	<100
Cyclohexane	µg/L	<100	<1	<1	<100	<100
Carbon tetrachloride	µg/L	<100	<1	<1	<100	<100
Benzene	µg/L	3,700	<1	<1	<100	<100
Dibromomethane	µg/L	<100	<1	<1	<100	<100
1,2-dichloropropane	µg/L	<100	<1	<1	<100	<100
Trichloroethene	µg/L	<100	<1	<1	<100	<100
Bromodichloromethane	µg/L	<100	<1	<1	<100	<100
trans-1,3-dichloropropene	µg/L	<100	<1	<1	<100	<100
cis-1,3-dichloropropene	µg/L	<100	<1	<1	<100	<100
1,1,2-trichloroethane	µg/L	<100	<1	<1	<100	<100
Toluene	µg/L	41,000	<1	<1	1,300	3,100
1,3-dichloropropane	µg/L	<100	<1	<1	<100	<100
Dibromochloromethane	µg/L	<100	<1	<1	<100	<100
1,2-dibromoethane	µg/L	<100	<1	<1	<100	<100
Tetrachloroethene	µg/L	<100	<1	<1	<100	<100
1,1,1,2-tetrachloroethane	µg/L	<100	<1	<1	<100	<100
Chlorobenzene	µg/L	<100	<1	<1	<100	<100
Ethylbenzene	µg/L	2,600	<1	<1	1,200	1,700

VOCs in water						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<100	<1	<1	<100	<100
m+p-xylene	µg/L	4,400	<2	<2	3,400	6,600
Styrene	µg/L	<100	<1	<1	<100	<100
1,1,2,2-tetrachloroethane	µg/L	<100	<1	<1	<100	<100
o-xylene	µg/L	3,700	<1	<1	2,000	4,000
1,2,3-trichloropropane	µg/L	<100	<1	<1	<100	<100
Isopropylbenzene	µg/L	290	<1	<1	<100	<100
Bromobenzene	µg/L	<100	<1	<1	<100	<100
n-propyl benzene	µg/L	620	<1	<1	<100	<100
2-chlorotoluene	µg/L	<100	<1	<1	<100	<100
4-chlorotoluene	µg/L	<100	<1	<1	<100	<100
1,3,5-trimethyl benzene	µg/L	2,300	<1	<1	240	500
Tert-butyl benzene	µg/L	<100	<1	<1	<100	<100
1,2,4-trimethyl benzene	µg/L	8,400	<1	<1	810	1,500
1,3-dichlorobenzene	µg/L	<100	<1	<1	<100	<100
Sec-butyl benzene	µg/L	<100	<1	<1	<100	<100
1,4-dichlorobenzene	µg/L	<100	<1	<1	<100	<100
4-isopropyl toluene	µg/L	<100	<1	<1	<100	<100
1,2-dichlorobenzene	µg/L	<100	<1	<1	<100	<100
n-butyl benzene	µg/L	<100	<1	<1	<100	<100
1,2-dibromo-3-chloropropane	µg/L	<100	<1	<1	<100	<100
1,2,4-trichlorobenzene	µg/L	<100	<1	<1	<100	<100
Hexachlorobutadiene	µg/L	<100	<1	<1	<100	<100
1,2,3-trichlorobenzene	µg/L	<100	<1	<1	<100	<100
Surrogate Dibromofluoromethane	%	104	102	103	101	100
Surrogate Toluene-d8	%	103	99	98	100	100
Surrogate 4-Bromofluorobenzene	%	97	102	103	93	93

VOCs in water		
Our Reference		337401-11
Your Reference	UNITS	BD1/20231109
Date Sampled		9/11/2023
Type of sample		Water
Date Extracted	-	16/11/2023
Date Analysed	-	17/11/2023
Dichlorodifluoromethane	µg/L	<1000
Chloromethane	µg/L	<1000
Vinyl Chloride	µg/L	<1000
Bromomethane	µg/L	<1000
Chloroethane	µg/L	<1000
Trichlorofluoromethane	µg/L	<1000
1,1-Dichloroethene	µg/L	<100
Trans-1,2-dichloroethene	µg/L	<100
1,1-dichloroethane	µg/L	<100
Cis-1,2-dichloroethene	µg/L	<100
Bromochloromethane	µg/L	<100
Chloroform	µg/L	<100
2,2-dichloropropane	µg/L	<100
1,2-dichloroethane	µg/L	<100
1,1,1-trichloroethane	µg/L	<100
1,1-dichloropropene	µg/L	<100
Cyclohexane	µg/L	<100
Carbon tetrachloride	µg/L	<100
Benzene	µg/L	<100
Dibromomethane	µg/L	<100
1,2-dichloropropane	µg/L	<100
Trichloroethene	µg/L	<100
Bromodichloromethane	µg/L	<100
trans-1,3-dichloropropene	µg/L	<100
cis-1,3-dichloropropene	µg/L	<100
1,1,2-trichloroethane	µg/L	<100
Toluene	µg/L	<100
1,3-dichloropropane	µg/L	<100
Dibromochloromethane	µg/L	<100
1,2-dibromoethane	µg/L	<100
Tetrachloroethene	µg/L	<100
1,1,1,2-tetrachloroethane	µg/L	<100
Chlorobenzene	µg/L	<100
Ethylbenzene	µg/L	730

VOCs in water		
Our Reference		337401-11
Your Reference	UNITS	BD1/20231109
Date Sampled		9/11/2023
Type of sample		Water
Bromoform	µg/L	<100
m+p-xylene	µg/L	3,600
Styrene	µg/L	<100
1,1,2,2-tetrachloroethane	µg/L	<100
o-xylene	µg/L	1,100
1,2,3-trichloropropane	µg/L	<100
Isopropylbenzene	µg/L	<100
Bromobenzene	µg/L	<100
n-propyl benzene	µg/L	<100
2-chlorotoluene	µg/L	<100
4-chlorotoluene	µg/L	<100
1,3,5-trimethyl benzene	µg/L	140
Tert-butyl benzene	µg/L	<100
1,2,4-trimethyl benzene	µg/L	400
1,3-dichlorobenzene	µg/L	<100
Sec-butyl benzene	µg/L	<100
1,4-dichlorobenzene	µg/L	<100
4-isopropyl toluene	µg/L	<100
1,2-dichlorobenzene	µg/L	<100
n-butyl benzene	µg/L	<100
1,2-dibromo-3-chloropropane	µg/L	<100
1,2,4-trichlorobenzene	µg/L	<100
Hexachlorobutadiene	µg/L	<100
1,2,3-trichlorobenzene	µg/L	<100
Surrogate Dibromofluoromethane	%	100
Surrogate Toluene-d8	%	100
Surrogate 4-Bromofluorobenzene	%	94

PFAS in Water LOW LEVEL Short			
Our Reference	UNITS	337401-3	337401-10
Your Reference		JMBW06	MW40S(T)
Date Sampled		9/11/2023	9/11/2023
Type of sample		Water	Water
Date prepared	-	14/11/2023	14/11/2023
Date analysed	-	14/11/2023	14/11/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.016	0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.029	0.025
Perfluorooctanoic acid PFOA	µg/L	0.014	0.021
6:2 FTS	µg/L	0.11	0.27
8:2 FTS	µg/L	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	105	102
Surrogate $^{13}C_2$ *PFOA*	%	106	101
Extracted ISTD $^{18}O_2$ *PFHxS*	%	121	112
Extracted ISTD $^{13}C_4$ *PFOS*	%	89	86
Extracted ISTD $^{13}C_4$ *PFOA*	%	104	87
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	156
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	186	188
Total Positive PFHxS & PFOS	µg/L	0.045	0.035
Total Positive PFOA & PFOS	µg/L	0.043	0.046
Total Positive PFAS	µg/L	0.17	0.33

vTRH(C6-C10)/BTEXN in Water						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
TRH C_6 - C_9	µg/L	4,500	12,000	2,700	4,200	73,000
TRH C_6 - C_{10}	µg/L	6,000	15,000	3,900	5,600	86,000
TRH C_6 - C_{10} less BTEX (F1)	µg/L	1,500	5,500	1,500	2,800	24,000
Benzene	µg/L	<100	<100	<100	<100	3,900
Toluene	µg/L	<100	<100	<100	<100	46,000
Ethylbenzene	µg/L	580	1,300	1,100	1,200	3,100
m+p-xylene	µg/L	3,000	6,900	1,300	1,500	4,600
o-xylene	µg/L	870	1,800	<100	<100	3,900
Naphthalene	µg/L	<100	<100	<100	<100	100
Surrogate Dibromofluoromethane	%	101	101	101	100	104
Surrogate Toluene-d8	%	99	100	100	100	103
Surrogate 4-Bromofluorobenzene	%	94	90	98	98	96

vTRH(C6-C10)/BTEXN in Water						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023	17/11/2023
TRH C_6 - C_9	µg/L	70,000	<10	<10	8,300	16,000
TRH C_6 - C_{10}	µg/L	82,000	<10	<10	12,000	22,000
TRH C_6 - C_{10} less BTEX (F1)	µg/L	27,000	<10	<10	3,900	7,000
Benzene	µg/L	3,700	<1	<1	<100	<100
Toluene	µg/L	41,000	<1	<1	1,300	3,100
Ethylbenzene	µg/L	2,600	<1	<1	1,200	1,700
m+p-xylene	µg/L	4,400	<2	<2	3,400	6,600
o-xylene	µg/L	3,700	<1	<1	2,000	4,000
Naphthalene	µg/L	110	<1	<1	<100	<100
Surrogate Dibromofluoromethane	%	104	102	103	101	100
Surrogate Toluene-d8	%	103	99	98	100	100
Surrogate 4-Bromofluorobenzene	%	97	102	103	93	93

vTRH(C6-C10)/BTEXN in Water				
Our Reference	UNITS	337401-11	337401-12	337401-13
Your Reference		BD1/20231109	Trip Spike/20231109	Trip Blank/20231109
Date Sampled		9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water
Date extracted	-	16/11/2023	15/11/2023	15/11/2023
Date analysed	-	17/11/2023	16/11/2023	16/11/2023
TRH C_6 - C_9	µg/L	6,400	[NA]	<10
TRH C_6 - C_{10}	µg/L	8,400	[NA]	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	2,900	[NA]	<10
Benzene	µg/L	<100	113%	<1
Toluene	µg/L	<100	112%	<1
Ethylbenzene	µg/L	730	118%	<1
m+p-xylene	µg/L	3,600	109%	<2
o-xylene	µg/L	1,100	111%	<1
Naphthalene	µg/L	<100	[NA]	<1
Surrogate Dibromofluoromethane	%	100	104	100
Surrogate Toluene-d8	%	100	101	99
Surrogate 4-Bromofluorobenzene	%	94	93	100

svTRH (C10-C40) in Water						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
TRH C_{10} - C_{14}	µg/L	750	3,400	3,500	3,100	23,000
TRH C_{15} - C_{28}	µg/L	<100	180	730	470	2,800
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	750	3,600	4,200	3,600	26,000
TRH >C_{10} - C_{16}	µg/L	330	1,200	2,300	1,900	10,000
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	330	1,200	2,300	1,900	10,000
TRH >C_{16} - C_{34}	µg/L	<100	100	500	340	1,800
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	330	1,300	2,800	2,200	12,000
Surrogate o-Terphenyl	%	90	108	126	95	106

svTRH (C10-C40) in Water						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
TRH C_{10} - C_{14}	µg/L	23,000	<50	110	4,400	9,000
TRH C_{15} - C_{28}	µg/L	2,700	<100	160	1,300	2,400
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	110	150
Total +ve TRH (C10-C36)	µg/L	26,000	<50	270	5,700	12,000
TRH >C_{10} - C_{16}	µg/L	11,000	<50	110	3,100	7,600
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	10,000	<50	110	3,100	7,600
TRH >C_{16} - C_{34}	µg/L	1,800	<100	160	900	1,200
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	12,000	<50	270	4,000	8,800
Surrogate o-Terphenyl	%	96	85	106	106	104

svTRH (C10-C40) in Water		
Our Reference		337401-11
Your Reference	UNITS	BD1/20231109
Date Sampled		9/11/2023
Type of sample		Water
Date extracted	-	13/11/2023
Date analysed	-	13/11/2023
TRH C_{10} - C_{14}	µg/L	820
TRH C_{15} - C_{28}	µg/L	180
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	1,000
TRH >C_{10} - C_{16}	µg/L	370
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	370
TRH >C_{16} - C_{34}	µg/L	120
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	490
Surrogate o-Terphenyl	%	81

sTPH in Water (C10-C40) NEPM Silica gel						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
TPH C_{10} - C_{14}	µg/L	740	1,700	1,100	2,100	14,000
TPH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	340	630	600	1,000	3,100
TPH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate 1-Chlorooctadecane	%	111	83	72	92	100

sTPH in Water (C10-C40) NEPM Silica gel						
Our Reference		337401-6	337401-8	337401-9	337401-10	337401-11
Your Reference	UNITS	JMBW07(T)	MW32S	MW40S	MW40S(T)	BD1/20231109
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
TPH C_{10} - C_{14}	µg/L	17,000	<100	2,400	4,100	600
TPH C_{15} - C_{28}	µg/L	150	<200	<100	<100	<100
TPH C_{29} - C_{36}	µg/L	<100	<200	<100	<100	<100
TPH >C_{10} - C_{16}	µg/L	4,300	<100	1,300	2,000	230
TPH >C_{16} - C_{34}	µg/L	120	<200	<100	<100	<100
TPH >C_{34} - C_{40}	µg/L	<100	<200	<100	<100	<100
Surrogate 1-Chlorooctadecane	%	100	100	97	89	89

PAHs in Water						
Our Reference		337401-1	337401-3	337401-5	337401-7	337401-8
Your Reference	UNITS	338	JMBW06	JMBW07	MW09	MW32S
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	17/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Naphthalene	µg/L	20	96	84	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	20	96	84	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	81	130	105	108	129

PAHs in Water			
Our Reference		337401-9	337401-11
Your Reference	UNITS	MW40S	BD1/20231109
Date Sampled		9/11/2023	9/11/2023
Type of sample		Water	Water
Date extracted	-	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	17/11/2023
Naphthalene	µg/L	67	20
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	67	20
Surrogate p-Terphenyl-d14	%	111	82

Speciated Phenols in water						
Our Reference	UNITS	337401-1	337401-3	337401-5	337401-7	337401-8
Your Reference		338	JMBW06	JMBW07	MW09	MW32S
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	17/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
Phenol	µg/L	<1	<1	2	<1	<1
2-Chlorophenol	µg/L	<1	<1	<1	<1	<1
4-Chloro-3-Methylphenol	µg/L	<5	<5	<5	<5	<5
2-Methylphenol (0-Cresol)	µg/L	<1	1	41	<1	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	<2	<2	42	<2	<2
2-Nitrophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dimethylphenol	µg/L	<1	<1	<10	<1	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20	<20	<20
2346-Tetrachlorophenol	µg/L	<1	<1	<1	<1	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10	<10	<10	<10	<10
Pentachlorophenol	µg/L	<5	<5	<5	<5	<5
Surrogate 2-fluorophenol	%	#	45	39	43	53
Surrogate Phenol-d_6	%	#	34	#	42	42
Surrogate 2,4,6-Tribromophenol	%	#	126	109	91	105
Surrogate *p*-Terphenyl-d_{14}	%	81	130	105	108	129

Speciated Phenols in water			
Our Reference		337401-9	337401-11
Your Reference	UNITS	MW40S	BD1/20231109
Date Sampled		9/11/2023	9/11/2023
Type of sample		Water	Water
Date extracted	-	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	17/11/2023
Phenol	µg/L	<1	<1
2-Chlorophenol	µg/L	<1	<1
4-Chloro-3-Methylphenol	µg/L	<5	<5
2-Methylphenol (0-Cresol)	µg/L	23	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	25	<2
2-Nitrophenol	µg/L	<1	<1
2,4-Dimethylphenol	µg/L	57	<1
2,4-Dichlorophenol	µg/L	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20
4-Nitrophenol	µg/L	<20	<20
2346-Tetrachlorophenol	µg/L	<1	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10	<10
Pentachlorophenol	µg/L	<5	<5
Surrogate 2-fluorophenol	%	46	20
Surrogate Phenol-d_6	%	42	23
Surrogate 2,4,6-Tribromophenol	%	105	30
Surrogate *p*-Terphenyl-d_{14}	%	111	82

OCPs in Water - Trace Level			
Our Reference	UNITS	337401-3	337401-5
Your Reference		JMBW06	JMBW07
Date Sampled		9/11/2023	9/11/2023
Type of sample		Water	Water
Date extracted	-	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	16/11/2023
alpha-BHC	µg/L	0.11	0.093
HCB	µg/L	<0.001	<0.001
beta-BHC	µg/L	<0.001	<0.001
gamma-BHC	µg/L	<0.001	<0.001
Heptachlor	µg/L	<0.001	<0.001
delta-BHC	µg/L	<0.001	<0.001
Aldrin	µg/L	<0.001	<0.001
Heptachlor Epoxide	µg/L	<0.001	<0.001
gamma-Chlordane	µg/L	<0.001	<0.001
alpha-Chlordane	µg/L	<0.001	<0.001
Endosulfan I	µg/L	<0.002	<0.002
pp-DDE	µg/L	0.048	0.24
Dieldrin	µg/L	<0.001	<0.001
Endrin	µg/L	<0.001	<0.001
Endosulfan II	µg/L	<0.002	<0.002
pp-DDD	µg/L	0.53	15
Endrin Aldehyde	µg/L	<0.001	<0.001
pp-DDT	µg/L	0.12	3.7
Endosulfan Sulphate	µg/L	<0.001	<0.001
Methoxychlor	µg/L	<0.001	<0.001
Surrogate TCMX	%	132	113

HM in water - dissolved						
Our Reference		337401-1	337401-3	337401-5	337401-7	337401-8
Your Reference	UNITS	338	JMBW06	JMBW07	MW09	MW32S
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Arsenic-Dissolved	µg/L	<1	4	4	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	10	13	<1	3
Copper-Dissolved	µg/L	<1	2	<1	8	6
Lead-Dissolved	µg/L	<1	<1	<1	2	2
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	<1	<1	<1	2	<1
Zinc-Dissolved	µg/L	<1	8	7	290	4

HM in water - dissolved			
Our Reference		337401-9	337401-11
Your Reference	UNITS	MW40S	BD1/20231109
Date Sampled		9/11/2023	9/11/2023
Type of sample		Water	Water
Date prepared	-	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023
Arsenic-Dissolved	µg/L	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1
Chromium-Dissolved	µg/L	3	<1
Copper-Dissolved	µg/L	<1	<1
Lead-Dissolved	µg/L	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05
Nickel-Dissolved	µg/L	3	<1
Zinc-Dissolved	µg/L	<1	2

Ion Balance						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Calcium - Dissolved	mg/L	10	8.8	35	33	8.8
Potassium - Dissolved	mg/L	2	2	5.9	5.9	4
Sodium - Dissolved	mg/L	6.7	6.4	41	41	48
Magnesium - Dissolved	mg/L	0.7	0.6	4	4	0.9
Hardness	mgCaCO 3 /L	28	24	100	100	25
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	26	30	92	85	110
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	26	30	92	85	110
Sulphate, SO4	mg/L	4	5	45	38	5
Chloride, Cl	mg/L	7	6	61	57	18
Ionic Balance	%	5.0	-3.0	-5.0	-2.0	-3.0

Ion Balance						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Date analysed	-	09/11/2023	09/11/2023	09/11/2023	09/11/2023	09/11/2023
Calcium - Dissolved	mg/L	10	19	6.1	27	24
Potassium - Dissolved	mg/L	4	8.6	8.7	8.2	8.3
Sodium - Dissolved	mg/L	48	39	120	41	41
Magnesium - Dissolved	mg/L	0.9	3	0.6	2	2
Hardness	mgCaCO 3 /L	29	57	18	74	68
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	100	130	180	72	74
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	100	130	180	72	74
Sulphate, SO4	mg/L	5	34	60	52	25
Chloride, Cl	mg/L	18	15	43	38	38
Ionic Balance	%	2.0	-11	-3.0	-2.0	4.0

Miscellaneous Inorganics						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Total Suspended Solids	mg/L	190	24	<5	<5	13
Total Dissolved Solids (grav)	mg/L	55	43	250	200	220

Miscellaneous Inorganics						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Total Suspended Solids	mg/L	28	98	69	180	87
Total Dissolved Solids (grav)	mg/L	160	240	380	240	220

Microbiologocal Testing						
Our Reference		337401-1	337401-2	337401-3	337401-4	337401-5
Your Reference	UNITS	338	338(T)	JMBW06	JMBW06(T)	JMBW07
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<10	<100	<10	<10	<10

Microbiologocal Testing						
Our Reference		337401-6	337401-7	337401-8	337401-9	337401-10
Your Reference	UNITS	JMBW07(T)	MW09	MW32S	MW40S	MW40S(T)
Date Sampled		9/11/2023	9/11/2023	9/11/2023	9/11/2023	9/11/2023
Type of sample		Water	Water	Water	Water	Water
Date of testing	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<10	<100	<100	<10	<10

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date Extracted	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
Date Analysed	-			17/11/2023	[NT]	[NT]	[NT]	[NT]	17/11/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			14/11/2023	[NT]	[NT]	[NT]	[NT]	14/11/2023	[NT]
Date analysed	-			14/11/2023	[NT]	[NT]	[NT]	[NT]	14/11/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	108	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	111	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	107	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	110	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	66	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	55	[NT]	[NT]	[NT]	[NT]	74	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	75	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	82	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
Date analysed	-			17/11/2023	[NT]	[NT]	[NT]	[NT]	17/11/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	95	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	103	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337401-9
Date extracted	-			13/11/2023	8	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Date analysed	-			13/11/2023	8	13/11/2023	13/11/2023		13/11/2023	13/11/2023
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	8	110	99	11	97	#
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	8	160	140	13	102	125
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	8	<100	<100	0	100	119
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	8	110	100	10	97	#
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	8	160	130	21	102	125
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	8	<100	<100	0	100	119
Surrogate o-Terphenyl	%		Org-020	95	8	106	95	11	89	110

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			13/11/2023	8	13/11/2023	13/11/2023		13/11/2023	[NT]
Date analysed	-			16/11/2023	8	16/11/2023	16/11/2023		16/11/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	8	<100	<100	0	102	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	8	<200	<200	0	107	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	8	<200	<200	0	86	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	8	<100	<100	0	102	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	8	<200	<200	0	107	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	8	<200	<200	0	86	[NT]
Surrogate 1-Chlorooctadecane	%		Org-020	83	8	100	100	0	90	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337401-9
Date extracted	-			13/11/2023	8	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Date analysed	-			16/11/2023	8	16/11/2023	16/11/2023		16/11/2023	16/11/2023
Naphthalene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	106	#
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	105	104
Fluorene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	104	107
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	107	106
Anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	109	104
Pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	110	108
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	95	93
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	8	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	107	86
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	8	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	113	8	129	119	8	120	115

QUALITY CONTROL: Speciated Phenols in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337401-9
Date extracted	-			13/11/2023	8	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Date analysed	-			16/11/2023	8	16/11/2023	16/11/2023		16/11/2023	16/11/2023
Phenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	104	87
2-Chlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	106	106
4-Chloro-3-Methylphenol	µg/L	5	Org-022/025	<5	8	<5	<5	0	[NT]	[NT]
2-Methylphenol (0-Cresol)	µg/L	1	Org-022/025	<1	8	<1	<1	0	108	#
3/4-Methylphenol (m/p-Cresol)	µg/L	2	Org-022/025	<2	8	<2	<2	0	[NT]	[NT]
2-Nitrophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2,4-Dimethylphenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2,4-Dichlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2,6-Dichlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	102	102
2,4,5-Trichlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2,4,6-Trichlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2,4-Dinitrophenol	µg/L	20	Org-022/025	<20	8	<20	<20	0	[NT]	[NT]
4-Nitrophenol	µg/L	20	Org-022/025	<20	8	<20	<20	0	62	42
2346-Tetrachlorophenol	µg/L	1	Org-022/025	<1	8	<1	<1	0	[NT]	[NT]
2-methyl-4,6-Dinitrophenol	µg/L	10	Org-022/025	<10	8	<10	<10	0	[NT]	[NT]
Pentachlorophenol	µg/L	5	Org-022/025	<5	8	<5	<5	0	65	94
Surrogate 2-fluorophenol	%		Org-022/025	104	8	53	52	2	106	54
Surrogate Phenol-d_6	%		Org-022/025	99	8	42	44	5	107	49
Surrogate 2,4,6-Tribromophenol	%		Org-022/025	88	8	105	93	12	93	100
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	113	8	129	119	8	120	115

QUALITY CONTROL: OCPs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Date analysed	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
alpha-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	111	[NT]
HCB	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	111	[NT]
gamma-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	92	[NT]
delta-BHC	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	116	[NT]
Heptachlor Epoxide	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	114	[NT]
gamma-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-Chlordane	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	124	[NT]
Dieldrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	135	[NT]
Endrin	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	104	[NT]
Endosulfan II	µg/L	0.002	Org-022/025	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	112	[NT]
Endrin Aldehyde	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	132	[NT]
Methoxychlor	µg/L	0.001	Org-022/025	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	112	[NT]	[NT]	[NT]	[NT]	116	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	337401-3
Date prepared	-			13/11/2023	1	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Date analysed	-			13/11/2023	1	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	83	91
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	83	88
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	86	91
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	82	88
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	97	87
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	103	97
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	85	91
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	<1	1	0	84	95

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	337401-2
Date prepared	-			09/11/2023	1	09/11/2023	09/11/2023		09/11/2023	09/11/2023
Date analysed	-			09/11/2023	1	09/11/2023	09/11/2023		09/11/2023	09/11/2023
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	10	10	0	101	113
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	2	2	0	100	103
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	6.7	6.7	0	94	89
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	1	0.7	0.7	0	103	112
Hardness	mgCaCO 3 /L	3	Metals-020	[NT]	1	28	28	0	[NT]	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	26	26	0	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	<5	<5	0	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	26	26	0	95	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	1	4	4	0	110	108
Chloride, Cl	mg/L	1	Inorg-081	<1	1	7	6	15	108	105
Ionic Balance	%		Inorg-040	[NT]	1	5.0	6.0	18	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			10/11/2023	3	10/11/2023	10/11/2023		10/11/2023	[NT]
Date analysed	-			10/11/2023	3	10/11/2023	10/11/2023		10/11/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	3	<5	[NT]		92	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	3	250	220	13	90	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	10	10/11/2023	10/11/2023		[NT]	[NT]
Date analysed	-			[NT]	10	10/11/2023	10/11/2023		[NT]	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	[NT]	10	87	83	5	[NT]	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	[NT]	10	220	[NT]		[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Dissolved Metals: The preserved sample provided for #11 was not identified as either total or dissolved, therefore the unpreserved sample was filtered through 0.45µm filter at the lab.
Note: there is a possibility some elements may be underestimated.

TRH Water(C10-C40) NEPM - # Percent recovery for the surrogate is not possible to report as the high concentration of analytes in sample 337401-5 have caused interference.
TRH Water(C10-C40) NEPM - # Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 337401-9ms have caused interference.

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Speciated Phenols in water - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in sample/s 337401-9ms have caused interference.
The PQL has been raised due to interferences from analytes (other than those being tested) in sample/s 337401-5.

Speciated Phenols in water - # Percent recovery for the surrogate/matrix spike is not possible to report due to interference from analytes (other than those being tested) in sample/s 337401-1,5,9.

PAH_W:# Percent recovery for the surrogate/matrix spike is not possible to report due to interference from analytes (other than those being tested) in sample/s 337401-9.

Microbiology analysed by Sonic Food & Water Testing. Report No. W2326373 & W2326374 & W2328375 & W2326376 & W2326377 & W2326378 & W2326379 & W2326380 & W2326381 & W2326382
The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

VOC_W:The PQL for sample/s 337401-1,2,3,4,5,6,9,10,11 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.

TRH_BTEX_W_V_NEPM:The PQL for sample/s 337401-1,2,3,4,9,10,11 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.

Envirolab Services Pty Ltd
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www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	337401
Date Sample Received	09/11/2023
Date Instructions Received	09/11/2023
Date Results Expected to be Reported	17/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	13 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	VOCs in water	PFAS in Water LOW LEVEL Short	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	Speciated Phenols in water	OCPs in Water - Trace Level	HM in water - dissolved	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance	Total Suspended Solids	Total Dissolved Solids(grav)	Microbiologocal Testing
338	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
338(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JMBW06	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JMBW06(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JMBW07	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JMBW07(T)	✓		✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW09	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW32S	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW40S	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW40S(T)	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BD1/20231109	✓		✓	✓	✓	✓	✓		✓															
Trip Spike/20231109			✓																					
Trip Blank/20231109			✓																					

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au				**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day					(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No	☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	TPH (Silica Gel)	VOC	TRH/BTEX	OCP (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Pseudomonas Aeruginosa	Hold				Notes/ Preservation/ Additional Requirements
1	338	9-11-23	W	G/P	x	x	x			x		x	x					Speciated phenols for all Combo 4L analysis
2	338(T)	9-11-23	W	G/P		x	x	x		x		x	x					
3	JBMW06	9-11-23	W	G/P	x	x	x		x	x	x	x	x					
4	JBMW06(T)	9-11-23	W	G/P		x	x	x		x		x	x					
5	JBMW07	9-11-23	W	G/P	x	x	x		x	x		x	x					
6	JBMW07(T)	9-11-23	W	G/P		x	x	x		x		x	x					
7	MW09	9-11-23	W	G/P	x	x	x			x		x	x					
8	MW32S	9-11-23	W	G/P	x	x	x			x		x	x					
9	MW40S	9-11-23	W	G/P	x	x	x			x		x	x					
10	MW40S(T)	9-11-23	W	G/P		x	x	x		x	x	x	x					
11	BD1/20231109	9-11-23	W	G/P	x	x	x											
12	Trip Spike/20231109	9-11-23	W	G/P				x										
13	Trip Blank/20231109	9-11-23	W	G/P				x										

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 337401
Date Received: 9/11/23
Time Received: 1610
Received By: CH
Temp: Cool/Ambient 3.2°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	13	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 4:15 pm, 9/11/23	**Date:**	09-11-23
		Signed:	

LAB RECEIPT

Lab Ref. No:	337401
Received by:	Christine Ho
Date & Time:	9/11/23 1610
Signed:	

Douglas Partners
Geotechnics | Environment | Groundwater

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				12 Ashley St, Chatswood NSW 2067
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		(02) 9910 6200 samplereceipt@envirolab.com.au

Lab ID	Sample ID / Location / Other ID	Date Sampled	Sample Type (S - soil W - water M - Material)	Container Type (J-Jar P-Plastic B- Bag)	Analytes: Combo 4L	TPH (Silica Gel)	VOC	TRH/BTEX	OCP (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Pseudomonas Aeruginosa	Hold				Notes/ Preservation/ Additional Requirements
1	338	9-11-23	W	G/P	x	x	x			x		x	x					Speciated phenols for all Combo 4L analysis
2	338(T)	9-11-23	W	G/P		x	x	x		x		x	x					
3	JBMW06	9-11-23	W	G/P	x	x	x		x	x	x	x	x					
4	JBMW06(T)	9-11-23	W	G/P		x	x	x		x		x	x					
5	JBMW07	9-11-23	W	G/P	x	x	x		x	x		x	x					
6	JBMW07(T)	9-11-23	W	G/P		x	x	x		x		x	x					
7	MW09	9-11-23	W	G/P	x	x	x			x		x	x					
8	MW32S	9-11-23	W	G/P	x	x	x			x		x	x					
9	MW40S	9-11-23	W	G/P	x	x	x			x		x	x					
10	MW40S(T)	9-11-23	W	G/P		x	x	x		x	x	x	x					
11	BD1/20231109	9-11-23	W	G/P	x	x	x											
12	Trip Spike/20231109	9-11-23	W	G/P				x										
13	Trip Blank/20231109	9-11-23	W	G/P				x										

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 337401
Date Received: 9/11/23
Time Received: 1610
Received By: CH
Temp: Cool/Ambient 3°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:	13	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 4:15 pm, 9/11/23	**Date:**	09-11-23 **Signed:**

LAB RECEIPT

Lab Ref. No:	337401
Received by:	Christine H
Date & Time:	9/11/23 1616
Signed:	

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CERTIFICATE OF ANALYSIS 337479

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	5 Water
Date samples received	10/11/2023
Date completed instructions received	10/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	17/11/2023
Date of Issue	17/11/2023

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Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Greta Petzold, Operation Manager
Liam Timmins, Organics Supervisor
Loren Bardwell, Development Chemist
Phalak Inthakesone, Organics Development Manager, Sydney
Priya Samarawickrama, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

VOCs in water						
Our Reference		337479-1	337479-2	337479-3	337479-4	337479-5
Your Reference	UNITS	307	307(T)	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water	Water
Date Extracted	-	10/11/2023	10/11/2023	13/11/2023	10/11/2023	13/11/2023
Date Analysed	-	13/11/2023	13/11/2023	14/11/2023	13/11/2023	14/11/2023
Dichlorodifluoromethane	µg/L	<100	<100	<10	<100	<10
Chloromethane	µg/L	<100	<100	<10	<100	<10
Vinyl Chloride	µg/L	<100	<100	<10	<100	<10
Bromomethane	µg/L	<100	<100	<10	<100	<10
Chloroethane	µg/L	<100	<100	<10	<100	<10
Trichlorofluoromethane	µg/L	<100	<100	<10	<100	<10
1,1-Dichloroethene	µg/L	<10	<10	<1	<10	<1
Trans-1,2-dichloroethene	µg/L	<10	<10	<1	<10	<1
1,1-dichloroethane	µg/L	<10	<10	<1	<10	<1
Cis-1,2-dichloroethene	µg/L	<10	<10	<1	<10	<1
Bromochloromethane	µg/L	<10	<10	<1	<10	<1
Chloroform	µg/L	<10	<10	<1	<10	<1
2,2-dichloropropane	µg/L	<10	<10	<1	<10	<1
1,2-dichloroethane	µg/L	<10	<10	<1	<10	<1
1,1,1-trichloroethane	µg/L	<10	<10	<1	<10	<1
1,1-dichloropropene	µg/L	<10	<10	<1	<10	<1
Cyclohexane	µg/L	<10	<10	<1	<10	1
Carbon tetrachloride	µg/L	<10	<10	<1	<10	<1
Benzene	µg/L	<10	<10	<1	<10	<1
Dibromomethane	µg/L	<10	<10	<1	<10	<1
1,2-dichloropropane	µg/L	<10	<10	<1	<10	<1
Trichloroethene	µg/L	<10	<10	<1	<10	<1
Bromodichloromethane	µg/L	<10	<10	<1	<10	<1
trans-1,3-dichloropropene	µg/L	<10	<10	<1	<10	<1
cis-1,3-dichloropropene	µg/L	<10	<10	<1	<10	<1
1,1,2-trichloroethane	µg/L	<10	<10	<1	<10	<1
Toluene	µg/L	<10	<10	<1	3,200	<1
1,3-dichloropropane	µg/L	<10	<10	<1	<10	<1
Dibromochloromethane	µg/L	<10	<10	<1	<10	<1
1,2-dibromoethane	µg/L	<10	<10	<1	<10	<1
Tetrachloroethene	µg/L	<10	<10	<1	<10	<1
1,1,1,2-tetrachloroethane	µg/L	<10	<10	<1	<10	<1
Chlorobenzene	µg/L	<10	<10	<1	<10	<1
Ethylbenzene	µg/L	2,000	2,000	<1	2,300	<1

VOCs in water						
Our Reference		337479-1	337479-2	337479-3	337479-4	337479-5
Your Reference	UNITS	307	307(T)	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water	Water
Bromoform	µg/L	<10	<10	<1	<10	<1
m+p-xylene	µg/L	16,000	16,000	<2	14,000	<2
Styrene	µg/L	<10	<10	<1	<10	<1
1,1,2,2-tetrachloroethane	µg/L	<10	<10	<1	<10	<1
o-xylene	µg/L	6,500	6,900	<1	5,900	<1
1,2,3-trichloropropane	µg/L	<10	<10	<1	<10	<1
Isopropylbenzene	µg/L	85	93	<1	110	<1
Bromobenzene	µg/L	<10	<10	<1	<10	<1
n-propyl benzene	µg/L	59	66	<1	250	<1
2-chlorotoluene	µg/L	<10	<10	<1	<10	<1
4-chlorotoluene	µg/L	30	37	<1	57	<1
1,3,5-trimethyl benzene	µg/L	190	210	<1	750	<1
Tert-butyl benzene	µg/L	<10	<10	<1	<10	<1
1,2,4-trimethyl benzene	µg/L	410	470	<1	1,300	<1
1,3-dichlorobenzene	µg/L	<10	<10	<1	<10	<1
Sec-butyl benzene	µg/L	<10	<10	<1	<10	<1
1,4-dichlorobenzene	µg/L	<10	<10	<1	<10	<1
4-isopropyl toluene	µg/L	<10	<10	<1	11	<1
1,2-dichlorobenzene	µg/L	<10	<10	<1	<10	<1
n-butyl benzene	µg/L	<10	<10	<1	13	<1
1,2-dibromo-3-chloropropane	µg/L	<10	<10	<1	<10	<1
1,2,4-trichlorobenzene	µg/L	<10	<10	<1	<10	<1
Hexachlorobutadiene	µg/L	<10	<10	<1	<10	<1
1,2,3-trichlorobenzene	µg/L	<10	<10	<1	<10	<1
Surrogate Dibromofluoromethane	%	97	98	95	98	95
Surrogate Toluene-d8	%	101	100	93	101	94
Surrogate 4-Bromofluorobenzene	%	120	115	107	113	107

vTRH(C6-C10)/BTEXN in Water						
Our Reference	UNITS	337479-1	337479-2	337479-3	337479-4	337479-5
Your Reference		307	307(T)	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	10/11/2023	10/11/2023	13/11/2023	10/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	14/11/2023	13/11/2023	14/11/2023
TRH C_6 - C_9	µg/L	24,000	24,000	<10	28,000	<10
TRH C_6 - C_{10}	µg/L	31,000	31,000	<10	37,000	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	7,300	6,300	<10	11,000	<10
Benzene	µg/L	<10	<10	<1	<10	<1
Toluene	µg/L	<10	<10	<1	3,200	<1
Ethylbenzene	µg/L	2,000	2,000	<1	2,300	<1
m+p-xylene	µg/L	16,000	16,000	<2	14,000	<2
o-xylene	µg/L	6,500	6,900	<1	5,900	<1
Naphthalene	µg/L	18	21	<1	76	<1
Surrogate Dibromofluoromethane	%	97	98	95	98	95
Surrogate Toluene-d8	%	101	100	93	101	94
Surrogate 4-Bromofluorobenzene	%	120	115	107	113	107

svTRH (C10-C40) in Water						
Our Reference	UNITS	337479-1	337479-2	337479-3	337479-4	337479-5
Your Reference		307	307(T)	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023	13/11/2023
TRH C_{10} - C_{14}	µg/L	1,100	1,200	<50	5,200	<50
TRH C_{15} - C_{28}	µg/L	210	<100	<100	350	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	1,300	1,200	<50	5,600	<50
TRH >C_{10} - C_{16}	µg/L	570	510	<50	2,200	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	550	490	<50	2,100	<50
TRH >C_{16} - C_{34}	µg/L	170	<100	<100	100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	740	510	<50	2,300	<50
Surrogate o-Terphenyl	%	89	81	77	74	93

sTPH in Water (C10-C40) NEPM Silica gel				
Our Reference		337479-1	337479-2	337479-4
Your Reference	UNITS	307	307(T)	MW18
Date Sampled		10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023
TPH C_{10} - C_{14}	µg/L	890	1,100	5,400
TPH C_{15} - C_{28}	µg/L	<100	<200	<200
TPH C_{29} - C_{36}	µg/L	<100	<200	<200
TPH >C_{10} - C_{16}	µg/L	400	440	1,600
TPH >C_{16} - C_{34}	µg/L	<100	<200	<200
TPH >C_{34} - C_{40}	µg/L	<100	<200	<200
Surrogate 1-Chlorooctadecane	%	97	88	95

PAHs in Water					
Our Reference	UNITS	337479-1	337479-3	337479-4	337479-5
Your Reference		307	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	17/11/2023	14/11/2023	17/11/2023	14/11/2023
Naphthalene	µg/L	10	<0.1	64	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5	<0.5	<0.5
Total +ve PAH's	µg/L	10	<0.1	64	<0.1
Surrogate p-Terphenyl-d14	%	73	111	73	118

Speciated Phenols in water					
Our Reference	UNITS	337479-1	337479-3	337479-4	337479-5
Your Reference		307	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date extracted	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	17/11/2023	17/11/2023	17/11/2023	17/11/2023
Phenol	µg/L	<1	<1	<1	<1
2-Chlorophenol	µg/L	<1	<1	<1	<1
4-Chloro-3-Methylphenol	µg/L	<5	<5	<5	<5
2-Methylphenol (0-Cresol)	µg/L	<1	<1	3	<1
3/4-Methylphenol (m/p-Cresol)	µg/L	<2	<2	5	<2
2-Nitrophenol	µg/L	<1	<1	<1	<1
2,4-Dimethylphenol	µg/L	16	<1	33	<1
2,4-Dichlorophenol	µg/L	<1	<1	<1	<1
2,6-Dichlorophenol	µg/L	<1	<1	<1	<1
2,4,5-Trichlorophenol	µg/L	<1	<1	<1	<1
2,4,6-Trichlorophenol	µg/L	<1	<1	<1	<1
2,4-Dinitrophenol	µg/L	<20	<20	<20	<20
4-Nitrophenol	µg/L	<20	<20	<20	<20
2346-Tetrachlorophenol	µg/L	<1	<1	<1	<1
2-methyl-4,6-Dinitrophenol	µg/L	<10	<10	<10	<10
Pentachlorophenol	µg/L	<5	<5	<5	<5
Surrogate 2-fluorophenol	%	20	36	41	48
Surrogate Phenol-d_6	%	34	26	32	34
Surrogate 2,4,6-Tribromophenol	%	75	52	62	72
Surrogate *p*-Terphenyl-d_{14}	%	73	66	67	84

HM in water - dissolved					
Our Reference	UNITS	337479-1	337479-3	337479-4	337479-5
Your Reference		307	JBMW11	MW18	BD1/20231110
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Date analysed	-	13/11/2023	13/11/2023	13/11/2023	13/11/2023
Arsenic-Dissolved	µg/L	<1	<1	3	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	3	<1	<1	<1
Copper-Dissolved	µg/L	<1	4	3	<1
Lead-Dissolved	µg/L	<1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	<1	<1	<1	<1
Zinc-Dissolved	µg/L	<1	2	13	1

Ion Balance					
Our Reference	UNITS	337479-1	337479-2	337479-3	337479-4
Your Reference		307	307(T)	JBMW11	MW18
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Date analysed	-	10/11/2023	10/11/2023	10/11/2023	10/11/2023
Calcium - Dissolved	mg/L	3	6.1	13	28
Potassium - Dissolved	mg/L	9.0	9.2	3	3
Sodium - Dissolved	mg/L	140	150	12	60
Magnesium - Dissolved	mg/L	<0.5	0.9	1	1
Hardness	mgCaCO 3 /L	6.7	19	38	75
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	<5	<5	<5	<5
Bicarbonate Alkalinity as $CaCO_3$	mg/L	230	210	62	120
Carbonate Alkalinity as $CaCO_3$	mg/L	<5	<5	<5	<5
Total Alkalinity as $CaCO_3$	mg/L	230	210	62	120
Sulphate, SO4	mg/L	47	45	6	14
Chloride, Cl	mg/L	37	36	9	41
Ionic Balance	%	1.0	9.0	-9.0	4.0

Miscellaneous Inorganics					
Our Reference	UNITS	337479-1	337479-2	337479-3	337479-4
Your Reference		307	307(T)	JBMW11	MW18
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date prepared	-	14/11/2023	14/11/2023	14/11/2023	14/11/2023
Date analysed	-	14/11/2023	14/11/2023	14/11/2023	14/11/2023
Total Suspended Solids	mg/L	16	56	35	<5
Total Dissolved Solids (grav)	mg/L	530	600	130	280

Microbiologocal Testing					
Our Reference		337479-1	337479-2	337479-3	337479-4
Your Reference	UNITS	307	307(T)	JBMW11	MW18
Date Sampled		10/11/2023	10/11/2023	10/11/2023	10/11/2023
Type of sample		Water	Water	Water	Water
Date of testing	-	11/11/2023	11/11/2023	11/11/2023	11/11/2023
Pseudomonas Aeruginosa	cfu/100mL	<100	<100	<100	<10

PFAS in Water LOW LEVEL Short			
Our Reference	UNITS	337479-3	337479-5
Your Reference		JBMW11	BD1/20231110
Date Sampled		10/11/2023	10/11/2023
Type of sample		Water	Water
Date prepared	-	14/11/2023	14/11/2023
Date analysed	-	14/11/2023	14/11/2023
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.011	0.007
Perfluorooctanesulfonic acid PFOS	µg/L	0.16	0.095
Perfluorooctanoic acid PFOA	µg/L	0.002	0.001
6:2 FTS	µg/L	0.004	0.009
8:2 FTS	µg/L	<0.002	<0.002
Surrogate $^{13}C_8$ *PFOS*	%	109	105
Surrogate $^{13}C_2$ *PFOA*	%	100	97
Extracted ISTD $^{18}O_2$ *PFHxS*	%	77	77
Extracted ISTD $^{13}C_4$ *PFOS*	%	89	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	134	132
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	#	#
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	#	#
Total Positive PFHxS & PFOS	µg/L	0.17	0.10
Total Positive PFOA & PFOS	µg/L	0.16	0.097
Total Positive PFAS	µg/L	0.17	0.11

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-018	Total Dissolved Solids - determined gravimetrically. The solids are dried at 180+/-10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation below:- TDS = EC * 0.6
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-040	The concentrations of the major ions (mg/L) are converted to milliequivalents and summed. The ionic balance should be within +/- 15% ie total anions = total cations +/-15%.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B. Waters samples are filtered on receipt prior to analysis. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date Extracted	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Date Analysed	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	112	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Date analysed	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	112	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	112	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	
Date extracted	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Date analysed	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	117	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	117	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	99	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sTPH in Water (C10-C40) NEPM Silica gel					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Date analysed	-			16/11/2023	[NT]	[NT]	[NT]	[NT]	16/11/2023	[NT]
TPH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	102	[NT]
TPH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TPH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TPH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	102	[NT]
TPH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TPH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate 1-Chlorooctadecane	%		Org-020	83	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Date analysed	-			14/11/2023	[NT]	[NT]	[NT]	[NT]	14/11/2023	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	96	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: Speciated Phenols in water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			13/11/2023	[NT]	[NT]	[NT]	[NT]	13/11/2023	[NT]
Date analysed	-			17/11/2023	[NT]	[NT]	[NT]	[NT]	17/11/2023	[NT]
Phenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	73	[NT]
2-Chlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
4-Chloro-3-Methylphenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Methylphenol (0-Cresol)	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
3/4-Methylphenol (m/p-Cresol)	µg/L	2	Org-022/025	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-Nitrophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dimethylphenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,6-Dichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
2,4,5-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,6-Trichlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-Dinitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-Nitrophenol	µg/L	20	Org-022/025	<20	[NT]	[NT]	[NT]	[NT]	88	[NT]
2346-Tetrachlorophenol	µg/L	1	Org-022/025	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-methyl-4,6-Dinitrophenol	µg/L	10	Org-022/025	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Pentachlorophenol	µg/L	5	Org-022/025	<5	[NT]	[NT]	[NT]	[NT]	87	[NT]
Surrogate 2-fluorophenol	%		Org-022/025	75	[NT]	[NT]	[NT]	[NT]	70	[NT]
Surrogate Phenol-d_6	%		Org-022/025	77	[NT]	[NT]	[NT]	[NT]	83	[NT]
Surrogate 2,4,6-Tribromophenol	%		Org-022/025	66	[NT]	[NT]	[NT]	[NT]	78	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022/025	84	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	337479-3
Date prepared	-			13/11/2023	1	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Date analysed	-			13/11/2023	1	13/11/2023	13/11/2023		13/11/2023	13/11/2023
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	95	89
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	92	88
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	3	2	40	96	91
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	91	86
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	96	84
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	108	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	95	90
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	96	95

QUALITY CONTROL: Ion Balance						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Date analysed	-			10/11/2023	[NT]	[NT]	[NT]	[NT]	10/11/2023	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Potassium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	108	[NT]
Sodium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	104	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	104	[NT]
Hydroxide Alkalinity (OH^-) as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bicarbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbonate Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	95	[NT]
Sulphate, SO4	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Chloride, Cl	mg/L	1	Inorg-081	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date prepared	-			14/11/2023	1	14/11/2023	14/11/2023		14/11/2023	[NT]
Date analysed	-			14/11/2023	1	14/11/2023	14/11/2023		14/11/2023	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	16	[NT]		89	[NT]
Total Dissolved Solids (grav)	mg/L	5	Inorg-018	<5	1	530	620	16	109	[NT]

QUALITY CONTROL: PFAS in Water LOW LEVEL Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			14/11/2023	[NT]	[NT]	[NT]	[NT]	14/11/2023	[NT]
Date analysed	-			14/11/2023	[NT]	[NT]	[NT]	[NT]	14/11/2023	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	103	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	95	[NT]
6:2 FTS	µg/L	0.001	Org-029	<0.001	[NT]	[NT]	[NT]	[NT]	93	[NT]
8:2 FTS	µg/L	0.002	Org-029	<0.002	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	81	[NT]	[NT]	[NT]	[NT]	81	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	83	[NT]	[NT]	[NT]	[NT]	78	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	135	[NT]	[NT]	[NT]	[NT]	128	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	156	[NT]	[NT]	[NT]	[NT]	155	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

For PFAS Extracted Internal Standards denoted with # or outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Microbiology analysed by Sonic Food & Water Testing. Report No. W2326519
The time between collection and the commencement of testing should not exceed 24 hours. Samples tested outside this time may have their results compromised

TRH_W_SI_NEPM:
The PQL for sample/s 337479-2,4 has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring a dilution.

VOC/BTEX in water - The PQL for samples 337479-1,2,4 has been raised due to the high concentration of analytes in the samples, resulting in the samples requiring a dilution.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	337479
Date Sample Received	10/11/2023
Date Instructions Received	10/11/2023
Date Results Expected to be Reported	17/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	VOCs in water	vTRH(C6-C10)/BTEXN in Water	sTPH in Water (C10-C40) NEPM Silica gel	PAHs in Water	Speciated Phenols in water	HM in water - dissolved	Calcium - Dissolved	Potassium - Dissolved	Sodium - Dissolved	Magnesium - Dissolved	Hardness	Hydroxide Alkalinity (OH-) as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Total Alkalinity as CaCO3	Sulphate, SO4	Chloride, Cl	Ionic Balance	Total Suspended Solids	Total Dissolved Solids(grav)	Microbiologocal Testing	PFAS in Water LOW LEVEL Short
307	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
307(T)	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
JBMW11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MW18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BD1/20231110	✓	✓	✓	✓	✓	✓																✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	23SY225	**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	TPH (Silica Gel)	VOC	TRH/BTEX	OCP (trace)	Anions, Cations, Hardness	PFAS (short suite, low level)	TSS, TDS	Pseudomonas Aeruginosa	Hold				Notes/ Preservation/ Additional Requirements
1	307	10/11/23	W	G/P	x	x	x			x		x	x					Speciated phenols for all Combo 4L analysis
2	307(T)	10/11/23	W	G/P		x	x	x		x		x	x					
3	JBMW11	10/11/23	W	G/P	x	x	x			x	x	x	x					
4	MW18	10/11/23	W	G/P	x	x	x			x		x	x					
5	BD1/20231110	10/11/23	W	G/P	x	x	x				x							

ENVIROLAB GROUP

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 337479

Date Received: 10/11/23 ~~1040~~
Time Received: 1040
Received By: PJ
Temp: ~~Cool~~/Ambient
Cooling: Ice/Icepack
Security: ~~Intact~~/Broken/None

Metals to analyse:			
Number of samples in container:	5	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ,10:45 am, 10/11/23	**Date:**	9/11/2023
		Signed:	

LAB RECEIPT

Lab Ref. No:	337479
Received by:	Dan
Date & Time:	10/11/23 1040
Signed:	

CERTIFICATE OF ANALYSIS

Work Order	: **ES2332439**	Page	: 1 of 8
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 21-Sep-2023 15:50
Order number	: ----	Date Analysis Commenced	: 22-Sep-2023
C-O-C number	: ----	Issue Date	: 28-Sep-2023 17:08
Sampler	: PJ		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP231X-LL: Poor matrix spike recoveries due to matrix interferences(confirmed by re-analysis).
- EP080: Results for ES2332439-1 & 2 confirmed by re analysis and re run.
- EG035: Poor matrix spike recovery was obtained for Mercury on sample ES2332274 # 21. Confirmed by re-analysis.
- EP132: Where reported, Total PAH reported as the sum of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L		**0.001**	**0.002**	----	----	----
Copper	7440-50-8	0.001	mg/L		**0.001**	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L		**0.002**	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	----	----	----
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	----	----	----
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L		<0.05	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)									
^ **Total Polychlorinated biphenyls**	----	1	µg/L		<1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L		<0.5	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		<0.5	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L		<0.5	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L		<0.5	----	----	----	----
Aldrin	309-00-2	0.5	µg/L		<0.5	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L		<0.5	----	----	----	----
Endrin	72-20-8	0.5	µg/L		<0.5	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L		<0.5	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	2.0	µg/L		<2.0	----	----	----	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		<0.5	----	----	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	----	----	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		<0.5	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	----	----	----	----
Monocrotophos	6923-22-4	2.0	µg/L		<2.0	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	----	----	----	----
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	----	----	----	----
Malathion	121-75-5	0.5	µg/L		<0.5	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	----	----	----	----
Parathion	56-38-2	2.0	µg/L		<2.0	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	----	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	----	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	----	----	----	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	----	----	----	----
Ethion	563-12-2	0.5	µg/L		<0.5	----	----	----	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	----	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	----	----	----
C10 - C14 Fraction	----	50	µg/L		<50	**690**	----	----	----
C15 - C28 Fraction	----	100	µg/L		<100	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		<50	**690**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	**460**	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	**460**	----	----	----
>C10 - C16 Fraction	----	100	µg/L		<100	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	<100	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	----	----	----
Toluene	108-88-3	2	µg/L		<2	<2	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	----	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	----	----	----
^ **Total Xylenes**	----	2	µg/L		<2	<2	----	----	----
^ **Sum of BTEX**	----	1	µg/L		<1	<1	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	<5	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons									
3-Methylcholanthrene	56-49-5	0.1	µg/L		<0.1	<0.1	----	----	----
2-Methylnaphthalene	91-57-6	0.1	µg/L		<0.1	<0.1	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthene	83-32-9	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthylene	208-96-8	0.1	µg/L		<0.1	<0.1	----	----	----
Anthracene	120-12-7	0.1	µg/L		<0.1	<0.1	----	----	----
Benz(a)anthracene	56-55-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(a)pyrene	50-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(e)pyrene	192-97-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(k)fluoranthene	207-08-9	0.1	µg/L		<0.1	<0.1	----	----	----
Chrysene	218-01-9	0.1	µg/L		<0.1	<0.1	----	----	----
Coronene	191-07-1	0.1	µg/L		<0.1	<0.1	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.1	µg/L		<0.1	<0.1	----	----	----
Fluoranthene	206-44-0	0.1	µg/L		<0.1	<0.1	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons - Continued									
Fluorene	86-73-7	0.1	µg/L		<0.1	<0.1	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L		<0.1	<0.1	----	----	----
Naphthalene	91-20-3	0.1	µg/L		<0.1	**0.2**	----	----	----
Perylene	198-55-0	0.1	µg/L		<0.1	<0.1	----	----	----
Phenanthrene	85-01-8	0.1	µg/L		<0.1	<0.1	----	----	----
Pyrene	129-00-0	0.1	µg/L		<0.1	<0.1	----	----	----
^ **Sum of PAHs**	----	0.05	µg/L		<0.05	----	----	----	----
^ **Sum of PAHs**	----	0.05	µg/L		----	**0.2**	----	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.05	µg/L		<0.05	<0.05	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L		<0.002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L		**0.024**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L		**0.043**	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L		**0.07**	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L		**0.642**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L		**0.398**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L		**0.070**	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L		**0.016**	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L		<0.005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L		**1.85**	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L		<0.005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L		<0.005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.002	µg/L		**0.067**	----	----	----	----
Sum of PFAS (WA DER List)	----	0.002	µg/L		**3.11**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	1	%		**75.1**	**----**	**----**	**----**	**----**
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**85.0**	**----**	**----**	**----**	**----**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**80.8**	**----**	**----**	**----**	**----**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**82.2**	**113**	**----**	**----**	**----**
Toluene-D8	2037-26-5	2	%		**81.6**	**112**	**----**	**----**	**----**
4-Bromofluorobenzene	460-00-4	2	%		**76.3**	**102**	**----**	**----**	**----**
EP132T: Base/Neutral Extractable Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		**61.9**	**83.7**	**----**	**----**	**----**
Anthracene-d10	1719-06-8	0.1	%		**64.5**	**80.4**	**----**	**----**	**----**
4-Terphenyl-d14	1718-51-0	0.1	%		**75.0**	**90.4**	**----**	**----**	**----**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.002	%		**94.6**	**----**	**----**	**----**	**----**
13C8-PFOA	----	0.002	%		**109**	**----**	**----**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	45	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	50	150
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	50	150
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137
EP132T: Base/Neutral Extractable Surrogates			
2-Fluorobiphenyl	321-60-8	43	135
Anthracene-d10	1719-06-8	48	138
4-Terphenyl-d14	1718-51-0	48	144
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

CERTIFICATE OF ANALYSIS

Work Order	: **ES2332439**	Page	: 1 of 8
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 21-Sep-2023 15:50
Order number	: ----	Date Analysis Commenced	: 22-Sep-2023
C-O-C number	: ----	Issue Date	: 28-Sep-2023 17:08
Sampler	: PJ		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP231X-LL: Poor matrix spike recoveries due to matrix interferences(confirmed by re-analysis).
- EP080: Results for ES2332439-1 & 2 confirmed by re analysis and re run.
- EG035: Poor matrix spike recovery was obtained for Mercury on sample ES2332274 # 21. Confirmed by re-analysis.
- EP132: Where reported, Total PAH reported as the sum of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L		**0.001**	**0.002**	----	----	----
Copper	7440-50-8	0.001	mg/L		**0.001**	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L		**0.002**	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	----	----	----
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	----	----	----
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L		<0.05	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)									
^ **Total Polychlorinated biphenyls**	----	1	µg/L		<1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	----	----	----	----
beta-BHC	319-85-7	0.5	µg/L		<0.5	----	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		<0.5	----	----	----	----
delta-BHC	319-86-8	0.5	µg/L		<0.5	----	----	----	----
Heptachlor	76-44-8	0.5	µg/L		<0.5	----	----	----	----
Aldrin	309-00-2	0.5	µg/L		<0.5	----	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	----	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	----	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	----	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	----	----	----	----
Dieldrin	60-57-1	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L		<0.5	----	----	----	----
Endrin	72-20-8	0.5	µg/L		<0.5	----	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L		<0.5	----	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	----	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	----	----	----	----
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	----	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	2.0	µg/L		<2.0	----	----	----	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		<0.5	----	----	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	----	----	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		<0.5	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.5	µg/L		<0.5	----	----	----	----
Demeton-S-methyl	919-86-8	0.5	µg/L		<0.5	----	----	----	----
Monocrotophos	6923-22-4	2.0	µg/L		<2.0	----	----	----	----
Dimethoate	60-51-5	0.5	µg/L		<0.5	----	----	----	----
Diazinon	333-41-5	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.5	µg/L		<0.5	----	----	----	----
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	----	----	----	----
Malathion	121-75-5	0.5	µg/L		<0.5	----	----	----	----
Fenthion	55-38-9	0.5	µg/L		<0.5	----	----	----	----
Chlorpyrifos	2921-88-2	0.5	µg/L		<0.5	----	----	----	----
Parathion	56-38-2	2.0	µg/L		<2.0	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.5	µg/L		<0.5	----	----	----	----
Chlorfenvinphos	470-90-6	0.5	µg/L		<0.5	----	----	----	----
Bromophos-ethyl	4824-78-6	0.5	µg/L		<0.5	----	----	----	----
Fenamiphos	22224-92-6	0.5	µg/L		<0.5	----	----	----	----
Prothiofos	34643-46-4	0.5	µg/L		<0.5	----	----	----	----
Ethion	563-12-2	0.5	µg/L		<0.5	----	----	----	----
Carbophenothion	786-19-6	0.5	µg/L		<0.5	----	----	----	----
Azinphos Methyl	86-50-0	0.5	µg/L		<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	----	----	----
C10 - C14 Fraction	----	50	µg/L		<50	**690**	----	----	----
C15 - C28 Fraction	----	100	µg/L		<100	<100	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		<50	**690**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	**460**	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	**460**	----	----	----
>C10 - C16 Fraction	----	100	µg/L		<100	<100	----	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	<100	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	<100	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	----	----	----
Toluene	108-88-3	2	µg/L		<2	<2	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	<2	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	----	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	<2	----	----	----
^ **Total Xylenes**	----	2	µg/L		<2	<2	----	----	----
^ **Sum of BTEX**	----	1	µg/L		<1	<1	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	<5	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons									
3-Methylcholanthrene	56-49-5	0.1	µg/L		<0.1	<0.1	----	----	----
2-Methylnaphthalene	91-57-6	0.1	µg/L		<0.1	<0.1	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthene	83-32-9	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthylene	208-96-8	0.1	µg/L		<0.1	<0.1	----	----	----
Anthracene	120-12-7	0.1	µg/L		<0.1	<0.1	----	----	----
Benz(a)anthracene	56-55-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(a)pyrene	50-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(e)pyrene	192-97-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(k)fluoranthene	207-08-9	0.1	µg/L		<0.1	<0.1	----	----	----
Chrysene	218-01-9	0.1	µg/L		<0.1	<0.1	----	----	----
Coronene	191-07-1	0.1	µg/L		<0.1	<0.1	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.1	µg/L		<0.1	<0.1	----	----	----
Fluoranthene	206-44-0	0.1	µg/L		<0.1	<0.1	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons - Continued									
Fluorene	86-73-7	0.1	µg/L		<0.1	<0.1	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L		<0.1	<0.1	----	----	----
Naphthalene	91-20-3	0.1	µg/L		<0.1	**0.2**	----	----	----
Perylene	198-55-0	0.1	µg/L		<0.1	<0.1	----	----	----
Phenanthrene	85-01-8	0.1	µg/L		<0.1	<0.1	----	----	----
Pyrene	129-00-0	0.1	µg/L		<0.1	<0.1	----	----	----
^ **Sum of PAHs**	----	0.05	µg/L		<0.05	----	----	----	----
^ **Sum of PAHs**	----	0.05	µg/L		----	**0.2**	----	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.05	µg/L		<0.05	<0.05	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L		<0.002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L		**0.024**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L		**0.043**	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L		**0.07**	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L		**0.642**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L		**0.398**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L		**0.070**	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L		**0.016**	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L		<0.005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L		**1.85**	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L		<0.005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L		<0.005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.002	µg/L		**0.067**	----	----	----	----
Sum of PFAS (WA DER List)	----	0.002	µg/L		**3.11**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230920	BD4/20230920	----	----	----
				Sampling date / time	20-Sep-2023 00:00	20-Sep-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2332439-001	ES2332439-002	--------	--------	--------
					Result	Result	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	1	%		**75.1**	**----**	**----**	**----**	**----**
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**85.0**	**----**	**----**	**----**	**----**
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**80.8**	**----**	**----**	**----**	**----**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**82.2**	**113**	**----**	**----**	**----**
Toluene-D8	2037-26-5	2	%		**81.6**	**112**	**----**	**----**	**----**
4-Bromofluorobenzene	460-00-4	2	%		**76.3**	**102**	**----**	**----**	**----**
EP132T: Base/Neutral Extractable Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		**61.9**	**83.7**	**----**	**----**	**----**
Anthracene-d10	1719-06-8	0.1	%		**64.5**	**80.4**	**----**	**----**	**----**
4-Terphenyl-d14	1718-51-0	0.1	%		**75.0**	**90.4**	**----**	**----**	**----**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.002	%		**94.6**	**----**	**----**	**----**	**----**
13C8-PFOA	----	0.002	%		**109**	**----**	**----**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	45	134
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	50	150
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	50	150
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137
EP132T: Base/Neutral Extractable Surrogates			
2-Fluorobiphenyl	321-60-8	43	135
Anthracene-d10	1719-06-8	48	138
4-Terphenyl-d14	1718-51-0	48	144
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

QUALITY CONTROL REPORT

Work Order	: **ES2332439**	Page	: 1 of 8
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 21-Sep-2023
Order number	: ----	Date Analysis Commenced	: 22-Sep-2023
C-O-C number	: ----	Issue Date	: 28-Sep-2023
Sampler	: PJ		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP035SF: Total Phenol by Segmented Flow Analyser (QC Lot: 5318496)									
CA2305721-001	Anonymous	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
ES2332237-002	Anonymous	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG020F: Dissolved Metals by ICP-MS (QC Lot: 5318664)									
ES2332464-002	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2332274-021	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.005	0.008	48.1	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	0.002	0.005	80.4	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 5318663)									
ES2332402-009	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5320407)									
ES2332336-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	30	30	0.0	No Limit
ES2332461-002	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5320407)									

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5320407) - continued									
ES2332336-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	20	30	0.0	No Limit
ES2332461-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 5320407)									
ES2332336-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2332461-002	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5316679)									
ES2332230-005	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	0.183	0.199	8.1	0% - 50%
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	0.869	0.890	2.4	0% - 20%
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	0.231	0.259	11.4	0% - 20%
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5316679)									
ES2332230-005	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	0.138	0.148	7.1	0% - 50%
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	0.389	0.420	7.9	0% - 20%
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	0.057	0.060	5.0	No Limit
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	0.083	0.091	8.6	No Limit
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5316679)									
ES2332230-005	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.010	<0.010	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.010	<0.010	0.0	No Limit
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.010	<0.010	0.0	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.010	<0.010	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5318496)								
EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	0.2 mg/L	103	70.9	123
EG020F: Dissolved Metals by ICP-MS (QCLot: 5318664)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	97.1	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	96.3	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	96.7	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	95.8	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.2	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	93.7	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	95.4	81.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 5318663)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	92.8	83.0	105
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 5315495)								
EP066: Total Polychlorinated biphenyls	----	1	µg/L	<1	10 µg/L	92.3	68.9	113
EP068A: Organochlorine Pesticides (OC) (QCLot: 5315496)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	80.0	64.9	107
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	80.8	58.3	111
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	82.1	69.0	117
EP068: gamma-BHC	58-89-9	0.5	µg/L	<0.5	5 µg/L	84.0	70.0	112
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	84.2	68.9	110
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	86.4	65.2	108
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	80.5	65.8	109
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	80.6	67.1	107
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	80.8	64.1	110
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	85.6	66.7	112
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	74.1	63.2	111
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	85.8	65.2	113
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	79.6	66.0	112
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	99.4	65.2	113
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	75.0	67.3	114
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	80.7	72.0	122

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5315496) - continued								
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	102	66.9	109
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	79.3	65.2	112
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	105	65.2	112
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	86.6	63.8	110
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	94.9	61.1	114
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5315496)								
EP068: Dichlorvos	62-73-7	0.5	µg/L	<0.5	5 µg/L	73.8	65.6	114
EP068: Demeton-S-methyl	919-86-8	0.5	µg/L	<0.5	5 µg/L	85.9	63.7	113
EP068: Monocrotophos	6923-22-4	2	µg/L	<2.0	5 µg/L	28.3	19.7	48.0
EP068: Dimethoate	60-51-5	0.5	µg/L	<0.5	5 µg/L	91.8	69.5	110
EP068: Diazinon	333-41-5	0.5	µg/L	<0.5	5 µg/L	84.2	71.1	110
EP068: Chlorpyrifos-methyl	5598-13-0	0.5	µg/L	<0.5	5 µg/L	81.2	77.0	119
EP068: Parathion-methyl	298-00-0	2	µg/L	<2.0	5 µg/L	83.0	70.0	124
EP068: Malathion	121-75-5	0.5	µg/L	<0.5	5 µg/L	98.8	68.4	116
EP068: Fenthion	55-38-9	0.5	µg/L	<0.5	5 µg/L	80.2	68.6	112
EP068: Chlorpyrifos	2921-88-2	0.5	µg/L	<0.5	5 µg/L	82.2	75.0	119
EP068: Parathion	56-38-2	2	µg/L	<2.0	5 µg/L	78.8	67.0	121
EP068: Pirimphos-ethyl	23505-41-1	0.5	µg/L	<0.5	5 µg/L	77.2	69.0	121
EP068: Chlorfenvinphos	470-90-6	0.5	µg/L	<0.5	5 µg/L	103	71.8	110
EP068: Bromophos-ethyl	4824-78-6	0.5	µg/L	<0.5	5 µg/L	80.2	67.5	112
EP068: Fenamiphos	22224-92-6	0.5	µg/L	<0.5	5 µg/L	96.3	64.1	116
EP068: Prothiofos	34643-46-4	0.5	µg/L	<0.5	5 µg/L	82.1	67.8	114
EP068: Ethion	563-12-2	0.5	µg/L	<0.5	5 µg/L	83.0	74.0	120
EP068: Carbophenothion	786-19-6	0.5	µg/L	<0.5	5 µg/L	97.2	66.2	114
EP068: Azinphos Methyl	86-50-0	0.5	µg/L	<0.5	5 µg/L	96.3	51.6	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5315497)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	63.6	53.7	97.0
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	72.7	63.3	107
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	83.9	58.3	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5320407)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	77.9	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5315497)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	70.9	53.9	95.5
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	88.1	57.8	110

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5315497) - continued								
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	100	50.5	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5320407)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	79.2	75.0	127
EP080: BTEXN (QCLot: 5320407)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	98.0	68.3	119
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	92.8	73.5	120
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	94.2	73.8	122
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	95.1	73.0	122
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	94.4	76.4	123
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	97.8	75.5	124
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 5315480)								
EP132: 3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	2 µg/L	90.6	60.0	120
EP132: 2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	2 µg/L	68.6	59.0	123
EP132: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	2 µg/L	101	36.0	144
EP132: Acenaphthene	83-32-9	0.1	µg/L	<0.1	2 µg/L	71.7	64.0	122
EP132: Acenaphthylene	208-96-8	0.1	µg/L	<0.1	2 µg/L	75.9	64.0	126
EP132: Anthracene	120-12-7	0.1	µg/L	<0.1	2 µg/L	76.4	65.0	127
EP132: Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	2 µg/L	84.3	64.0	130
EP132: Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	2 µg/L	82.1	64.0	126
EP132: Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L	<0.1	2 µg/L	83.2	62.0	126
EP132: Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	2 µg/L	82.0	62.0	126
EP132: Benzo(g.h.i)perylene	191-24-2	0.1	µg/L	<0.1	2 µg/L	79.7	56.0	126
EP132: Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	2 µg/L	79.1	68.0	130
EP132: Chrysene	218-01-9	0.1	µg/L	<0.1	2 µg/L	81.0	66.0	130
EP132: Coronene	191-07-1	0.1	µg/L	<0.1	2 µg/L	76.3	35.0	133
EP132: Dibenz(a.h)anthracene	53-70-3	0.1	µg/L	<0.1	2 µg/L	80.7	58.0	128
EP132: Fluoranthene	206-44-0	0.1	µg/L	<0.1	2 µg/L	78.9	65.0	127
EP132: Fluorene	86-73-7	0.1	µg/L	<0.1	2 µg/L	74.8	64.0	124
EP132: Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L	<0.1	2 µg/L	81.4	57.0	127
EP132: Naphthalene	91-20-3	0.1	µg/L	<0.1	2 µg/L	65.2	54.0	128
EP132: Perylene	198-55-0	0.1	µg/L	<0.1	2 µg/L	81.3	66.0	130
EP132: Phenanthrene	85-01-8	0.1	µg/L	<0.1	2 µg/L	76.1	65.0	129
EP132: Pyrene	129-00-0	0.1	µg/L	<0.1	2 µg/L	77.6	66.0	128

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5316679)								
EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	0.025 µg/L	80.7	72.0	130
EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	0.025 µg/L	79.0	68.0	131
EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	0.025 µg/L	104	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5316679)								
EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	0.125 µg/L	80.8	73.0	129
EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	0.025 µg/L	90.8	72.0	129
EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	0.025 µg/L	93.5	72.0	129
EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	0.025 µg/L	82.5	72.0	130
EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	0.025 µg/L	100	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5316679)								
EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	0.025 µg/L	94.7	63.0	143
EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	0.025 µg/L	87.6	64.0	140
EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	0.025 µg/L	93.6	67.0	138
EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	0.025 µg/L	78.8	75.2	137

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5318496)							
CA2305721-001	Anonymous	EP035SF: Phenols (Total)	----	0.2 mg/L	102	65.1	128
EG020F: Dissolved Metals by ICP-MS (QCLot: 5318664)							
ES2332402-009	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	96.2	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	96.1	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	97.6	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	95.7	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	98.8	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	92.7	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	95.4	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 5318663)							
ES2332274-021	Anonymous	EG035F: Mercury	7439-97-6	0.001 mg/L	# 28.0	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5320407)							
ES2332336-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	79.9	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5320407)							
ES2332336-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	78.2	70.0	130
EP080: BTEXN (QCLot: 5320407)							
ES2332336-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	103	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	97.4	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	100	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	91.5	70.0	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	102	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	105	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5316679)							
ES2332230-006	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.025 µg/L	# Not Determined	72.0	130
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.025 µg/L	# Not Determined	68.0	131
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.025 µg/L	# Not Determined	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5316679)							
ES2332230-006	Anonymous	EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.125 µg/L	111	73.0	129
		EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.025 µg/L	# Not Determined	72.0	129
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.025 µg/L	# Not Determined	72.0	129
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.025 µg/L	# Not Determined	72.0	130
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.025 µg/L	# Not Determined	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5316679)							
ES2332230-006	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.025 µg/L	78.4	63.0	143
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.025 µg/L	88.8	64.0	140
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.025 µg/L	95.2	67.0	138
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.025 µg/L	95.2	75.2	137

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2332439**	Page	: 1 of 8
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 21-Sep-2023
Site	: Banksmeadow	Issue Date	: 28-Sep-2023
Sampler	: PJ	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EG035F: Dissolved Mercury by FIMS	ES2332274--021	Anonymous	**Mercury**	7439-97-6	28.0 %	70.0-130%	**Recovery less than lower data quality objective**
EP231A: Perfluoroalkyl Sulfonic Acids	ES2332230--006	Anonymous	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	ES2332230--006	Anonymous	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	ES2332230--006	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2332230--006	Anonymous	**Perfluoropentanoic acid (PFPeA)**	2706-90-3	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2332230--006	Anonymous	**Perfluorohexanoic acid (PFHxA)**	307-24-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2332230--006	Anonymous	**Perfluoroheptanoic acid (PFHpA)**	375-85-9	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2332230--006	Anonymous	**Perfluorooctanoic acid (PFOA)**	335-67-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
	0				
Laboratory Duplicates (DUP)					
Pesticides by GCMS	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	2	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
Pesticides by GCMS	0	1	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	0	1	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	2	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER** Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**----**	----	----	**25-Sep-2023**	18-Mar-2024	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**----**	----	----	**26-Sep-2023**	18-Oct-2023	✓
EP035SF: Total Phenol by Segmented Flow Analyser							
Clear Plastic Bottle - Sulfuric Acid (EP035SF)							
BD1/20230920	**20-Sep-2023**	**----**	----	----	**25-Sep-2023**	18-Oct-2023	✓
EP066: Polychlorinated Biphenyls (PCB)							
Miscellaneous Glass Bottle - unpreserved (EP066)							
BD1/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Miscellaneous Glass Bottle - unpreserved (EP068)							
BD1/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP068B: Organophosphorus Pesticides (OP)							
Miscellaneous Glass Bottle - unpreserved (EP068)							
BD1/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Clear glass VOC vial - HCl (EP080)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**25-Sep-2023**	04-Oct-2023	✓	**26-Sep-2023**	04-Oct-2023	✓
Miscellaneous Glass Bottle - unpreserved (EP071)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Clear glass VOC vial - HCl (EP080)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**25-Sep-2023**	04-Oct-2023	✓	**26-Sep-2023**	04-Oct-2023	✓
Miscellaneous Glass Bottle - unpreserved (EP071)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP080: BTEXN							
Clear glass VOC vial - HCl (EP080)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**25-Sep-2023**	04-Oct-2023	✓	**26-Sep-2023**	04-Oct-2023	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP132B: Polynuclear Aromatic Hydrocarbons							
Miscellaneous Glass Bottle - unpreserved (EP132)							
BD1/20230920, BD4/20230920	**20-Sep-2023**	**22-Sep-2023**	27-Sep-2023	✓	**25-Sep-2023**	01-Nov-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230920	**20-Sep-2023**	**25-Sep-2023**	18-Mar-2024	✓	**26-Sep-2023**	18-Mar-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230920	**20-Sep-2023**	**25-Sep-2023**	18-Mar-2024	✓	**26-Sep-2023**	18-Mar-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230920	**20-Sep-2023**	**25-Sep-2023**	18-Mar-2024	✓	**26-Sep-2023**	18-Mar-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230920	**20-Sep-2023**	**25-Sep-2023**	18-Mar-2024	✓	**26-Sep-2023**	18-Mar-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	1	9	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	2	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	1	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	0	1	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	3	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS) - Continued							
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	2	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Total Phenol by Segmented Flow Analyser	EP035SF	WATER	In house: Referenced to ISO 14402. The sample is in-line-distilled at pH 1- 4. The distillate, containing steam-volatile phenolic compounds is then oxidised by hexacyanoferrate(III). The resulting quinones react with 4-aminoantipyrine forming red condensation products, which are measured spectrometrically in a flow spectrometer at 505 nm.. This method is compliant with NEPM Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	WATER	In house: Referenced to USEPA 3640 (GPC Cleanup), 8270 GCMS Capiliary column, SIM mode. This method is compliant with NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is concentrated, combined with an equal volume of reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Sep. Funnel Extraction /Acetylation of Phenolic Compounds	ORG14-AC	WATER	In house: Referenced to USEPA 3510 (Extraction) / In-house (Acetylation): A 1L sample is extracted into dichloromethane and concentrated to 1 mL with echange into cyclohexane. Phenolic compounds are reacted with acetic anhydride to yield phenyl acetates suitable for ultra-trace analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2332439**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: Banksmeadow		
Sampler	: PJ		

Dates

Date Samples Received	: 21-Sep-2023 15:50	Issue Date	: 22-Sep-2023
Client Requested Due Date	: 28-Sep-2023	Scheduled Reporting Date	: **28-Sep-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 9.9'C, 14.5'C, 8.8'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 2 / 2

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **This is an updated SRN which indicates updating analysis, total metals analysis has been removed.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Sample ID	Sample Container Received	Preferred Sample Container for Analysis
Semivolatile Compounds by GCMS(SIM - Ultra-trace) : EP132		
BD1/20230920	- Miscellaneous Glass Bottle - unpreserved	- Amber Glass Bottle - Unpreserved
BD4/20230920	- Miscellaneous Glass Bottle - unpreserved	- Amber Glass Bottle - Unpreserved

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EP035SF Total Phenol by Segmented Flow Analyser	WATER - EP132B(PAH) Ultra Trace Polynuclear Aromatic Compounds	WATER - EP231-LL PFAS - Short Suite Low Level (12 analytes)	WATER - W-05 TRH/BTEXN/8 Metals	WATER - W-13 OC/OP/PCB
ES2332439-001	20-Sep-2023 00:00	BD1/20230920	✓	✓	✓	✓	✓
ES2332439-002	20-Sep-2023 00:00	BD4/20230920		✓		✓	

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

	Sample ID		Sample Type	Container Type	Analytes												
Lab ID	Location / Other ID	Date Sampled	S - soil W - water M - Material	J-Jar P-Plastic B- Bag	Combo 8L	Combo 3L	PFAS (short suite, low level)										Notes/ Preservation/ Additional Requirements
1 –	BD1/20230920	20-09-23	W	G/P	x		x										Please forward for interlab analysis
2 –	BD4/20230920	20-09-23	W	G/P		x											Please forward for interlab analysis

Environmental Division
Sydney
Work Order Reference
ES2332439

Telephone : +61-2-8784 8555

Metals to analyse:				**LAB RECEIPT**	
Number of samples in container:	2	**Transported to laboratory by:**	DP	**Lab Ref. No:**	333535
Send results to:	Douglas Partners Pty Ltd			**Received by:**	CH
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**	20/9/23 1515
Relinquished by:	PJ, 2:30 pm, 20/9/23	**Date:**	06-09-23	**Signed:**	

Relinquished by: ELS SYD
Sarah P Sadi
21/09/23, 1140

Rec: ERW
21/9/23
1550

CERTIFICATE OF ANALYSIS

Work Order	: **ES2332800**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: FERRERS RD	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 25-Sep-2023 15:50
Order number	: ----	Date Analysis Commenced	: 27-Sep-2023
C-O-C number	: ----	Issue Date	: 03-Oct-2023 13:16
Sampler	: PJ		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP132: Where reported, Total PAH reported as the sum of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	BD1/20230922	----	----	----	----
			Sampling date / time	22-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2332800-001	--------	--------	--------	--------
				Result	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	**0.025**	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EP035SF: Total Phenol by Segmented Flow Analyser								
Phenols (Total)	----	0.05	mg/L	<0.05	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	**4060**	----	----	----	----
C10 - C14 Fraction	----	50	µg/L	**460**	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L	**460**	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	**3880**	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L	**3770**	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L	**410**	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L	**410**	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L	**410**	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	**101**	----	----	----	----
Toluene	108-88-3	2	µg/L	**3**	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	**4**	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----
^ **Total Xylenes**	----	2	µg/L	<2	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230922	----	----	----	----
				Sampling date / time	22-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2332800-001	--------	--------	--------	--------
					Result	----	----	----	----
EP080: BTEXN - Continued									
^ Sum of BTEX	----	1	µg/L		**108**	----	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	----	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons									
3-Methylcholanthrene	56-49-5	0.1	µg/L		<0.1	----	----	----	----
2-Methylnaphthalene	91-57-6	0.1	µg/L		<0.1	----	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L		<0.1	----	----	----	----
Acenaphthene	83-32-9	0.1	µg/L		<0.1	----	----	----	----
Acenaphthylene	208-96-8	0.1	µg/L		<0.1	----	----	----	----
Anthracene	120-12-7	0.1	µg/L		<0.1	----	----	----	----
Benz(a)anthracene	56-55-3	0.1	µg/L		<0.1	----	----	----	----
Benzo(a)pyrene	50-32-8	0.05	µg/L		<0.05	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L		<0.1	----	----	----	----
Benzo(e)pyrene	192-97-2	0.1	µg/L		<0.1	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.1	µg/L		<0.1	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.1	µg/L		<0.1	----	----	----	----
Chrysene	218-01-9	0.1	µg/L		<0.1	----	----	----	----
Coronene	191-07-1	0.1	µg/L		<0.1	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.1	µg/L		<0.1	----	----	----	----
Fluoranthene	206-44-0	0.1	µg/L		<0.1	----	----	----	----
Fluorene	86-73-7	0.1	µg/L		<0.1	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L		<0.1	----	----	----	----
Naphthalene	91-20-3	0.1	µg/L		<0.1	----	----	----	----
Perylene	198-55-0	0.1	µg/L		<0.1	----	----	----	----
Phenanthrene	85-01-8	0.1	µg/L		<0.1	----	----	----	----
Pyrene	129-00-0	0.1	µg/L		<0.1	----	----	----	----
^ Sum of PAHs	----	0.05	µg/L		<0.05	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.05	µg/L		<0.05	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L		<0.002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L		**0.028**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L		**0.064**	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20230922	----	----	----	----
				Sampling date / time	22-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2332800-001	--------	--------	--------	--------
					Result	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L		<0.01	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L		**0.031**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L		**0.031**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L		**0.008**	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L		**0.012**	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L		<0.005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L		**0.018**	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L		<0.005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L		<0.005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.002	µg/L		**0.092**	----	----	----	----
Sum of PFAS (WA DER List)	----	0.002	µg/L		**0.192**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**95.0**	----	----	----	----
Toluene-D8	2037-26-5	2	%		**96.5**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**114**	----	----	----	----
EP132T: Base/Neutral Extractable Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		**89.4**	----	----	----	----
Anthracene-d10	1719-06-8	0.1	%		**91.9**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%		**97.0**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.002	%		**102**	----	----	----	----
13C8-PFOA	----	0.002	%		**104**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137
EP132T: Base/Neutral Extractable Surrogates			
2-Fluorobiphenyl	321-60-8	43	135
Anthracene-d10	1719-06-8	48	138
4-Terphenyl-d14	1718-51-0	48	144
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

QUALITY CONTROL REPORT

Work Order	: **ES2332800**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: FERRERS RD	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 25-Sep-2023
Order number	: ----	Date Analysis Commenced	: 27-Sep-2023
C-O-C number	: ----	Issue Date	: 03-Oct-2023
Sampler	: PJ		
Site	: Banksmeadow		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP035SF: Total Phenol by Segmented Flow Analyser (QC Lot: 5323884)									
CA2305788-007	Anonymous	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
ES2332800-001	BD1/20230922	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG020F: Dissolved Metals by ICP-MS (QC Lot: 5325245)									
ES2332661-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.005	0.004	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2332778-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
EG035F: Dissolved Mercury by FIMS (QC Lot: 5325247)									
ES2332661-004	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2332661-010	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5324161)									
ES2332762-004	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ES2332766-002	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5324161)									
ES2332762-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ES2332766-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 5324161)									
ES2332762-004	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	3	2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ES2332766-002	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5328196)									
ES2332684-001	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	<0.002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5328196)									
ES2332684-001	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	<0.002	0.0	No Limit
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5328196)									
ES2332684-001	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	<0.005	0.0	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	<0.005	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5323884)								
EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	0.2 mg/L	102	70.9	123
EG020F: Dissolved Metals by ICP-MS (QCLot: 5325245)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	106	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	103	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	101	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	101	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	99.1	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	101	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	103	81.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 5325247)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	102	83.0	105
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5324161)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	77.4	75.0	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5324394)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	67.8	53.7	97.0
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	79.3	63.3	107
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	93.7	58.3	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5324161)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	79.2	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5324394)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	64.2	53.9	95.5
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	88.9	57.8	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	92.0	50.5	115
EP080: BTEXN (QCLot: 5324161)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	98.6	68.3	119
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	103	73.5	120
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	97.4	73.8	122
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	99.7	73.0	122
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	97.7	76.4	123

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 5324161) - continued								
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	105	75.5	124
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 5324376)								
EP132: 3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	2 µg/L	103	60.0	120
EP132: 2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	2 µg/L	76.9	59.0	123
EP132: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	2 µg/L	126	36.0	144
EP132: Acenaphthene	83-32-9	0.1	µg/L	<0.1	2 µg/L	79.9	64.0	122
EP132: Acenaphthylene	208-96-8	0.1	µg/L	<0.1	2 µg/L	82.8	64.0	126
EP132: Anthracene	120-12-7	0.1	µg/L	<0.1	2 µg/L	86.0	65.0	127
EP132: Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	2 µg/L	96.9	64.0	130
EP132: Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	2 µg/L	92.8	64.0	126
EP132: Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L	<0.1	2 µg/L	93.8	62.0	126
EP132: Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	2 µg/L	92.9	62.0	126
EP132: Benzo(g.h.i)perylene	191-24-2	0.1	µg/L	<0.1	2 µg/L	92.4	56.0	126
EP132: Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	2 µg/L	91.6	68.0	130
EP132: Chrysene	218-01-9	0.1	µg/L	<0.1	2 µg/L	91.8	66.0	130
EP132: Coronene	191-07-1	0.1	µg/L	<0.1	2 µg/L	93.8	35.0	133
EP132: Dibenz(a.h)anthracene	53-70-3	0.1	µg/L	<0.1	2 µg/L	92.8	58.0	128
EP132: Fluoranthene	206-44-0	0.1	µg/L	<0.1	2 µg/L	90.9	65.0	127
EP132: Fluorene	86-73-7	0.1	µg/L	<0.1	2 µg/L	83.5	64.0	124
EP132: Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L	<0.1	2 µg/L	93.6	57.0	127
EP132: Naphthalene	91-20-3	0.1	µg/L	<0.1	2 µg/L	74.8	54.0	128
EP132: Perylene	198-55-0	0.1	µg/L	<0.1	2 µg/L	90.5	66.0	130
EP132: Phenanthrene	85-01-8	0.1	µg/L	<0.1	2 µg/L	85.4	65.0	129
EP132: Pyrene	129-00-0	0.1	µg/L	<0.1	2 µg/L	89.6	66.0	128
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5328196)								
EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	0.025 µg/L	98.0	72.0	130
EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	0.025 µg/L	107	68.0	131
EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	0.025 µg/L	102	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5328196)								
EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	0.125 µg/L	99.2	73.0	129
EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	0.025 µg/L	110	72.0	129
EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	0.025 µg/L	124	72.0	129
EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	0.025 µg/L	107	72.0	130

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5328196) - continued								
EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	0.025 µg/L	118	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5328196)								
EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	0.025 µg/L	89.2	63.0	143
EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	0.025 µg/L	109	64.0	140
EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	0.025 µg/L	115	67.0	138
EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	0.025 µg/L	102	75.2	137

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5323884)							
CA2305788-007	Anonymous	EP035SF: Phenols (Total)	----	0.2 mg/L	104	65.1	128
EG020F: Dissolved Metals by ICP-MS (QCLot: 5325245)							
ES2332661-002	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	101	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	102	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	91.5	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	104	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	101	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	98.7	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	102	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 5325247)							
ES2332661-003	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	91.1	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5324161)							
ES2332762-004	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	84.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5324161)							
ES2332762-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	79.1	70.0	130
EP080: BTEXN (QCLot: 5324161)							
ES2332762-004	Anonymous	EP080: Benzene	71-43-2	25 µg/L	91.1	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	82.7	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	93.8	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	101	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080: BTEXN (QCLot: 5324161) - continued							
ES2332762-004	Anonymous	EP080: ortho-Xylene	95-47-6	25 µg/L	97.7	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	108	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5328196)							
ES2332684-001	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.025 µg/L	87.7	72.0	130
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.025 µg/L	92.3	68.0	131
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.025 µg/L	100	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5328196)							
ES2332684-001	Anonymous	EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.125 µg/L	97.6	73.0	129
		EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.025 µg/L	103	72.0	129
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.025 µg/L	125	72.0	129
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.025 µg/L	97.3	72.0	130
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.025 µg/L	113	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5328196)							
ES2332684-001	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.025 µg/L	81.0	63.0	143
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.025 µg/L	100	64.0	140
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.025 µg/L	118	67.0	138
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.025 µg/L	78.0	75.2	137

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2332800**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 25-Sep-2023
Site	: Banksmeadow	Issue Date	: 03-Oct-2023
Sampler	: PJ	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Method	Count QC	Count Regular	Rate (%) Actual	Rate (%) Expected	Quality Control Specification
	0				
Laboratory Duplicates (DUP)					
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	1	0.00	5.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	1	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container* / Client Sample ID(s)	*Sample Date*	*Extraction / Preparation* Date extracted	Due for extraction	Evaluation	*Analysis* Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F) BD1/20230922	**22-Sep-2023**	**----**	----	----	**27-Sep-2023**	20-Mar-2024	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F) BD1/20230922	**22-Sep-2023**	**----**	----	----	**29-Sep-2023**	20-Oct-2023	✓
EP035SF: Total Phenol by Segmented Flow Analyser							
Clear Plastic Bottle - Sulfuric Acid (EP035SF) BD1/20230922	**22-Sep-2023**	**----**	----	----	**27-Sep-2023**	20-Oct-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	29-Sep-2023	✓	**29-Sep-2023**	06-Nov-2023	✓
Amber VOC Vial - Sulfuric Acid (EP080) BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	06-Oct-2023	✓	**28-Sep-2023**	06-Oct-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	29-Sep-2023	✓	**29-Sep-2023**	06-Nov-2023	✓
Amber VOC Vial - Sulfuric Acid (EP080) BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	06-Oct-2023	✓	**28-Sep-2023**	06-Oct-2023	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	06-Oct-2023	✓	**28-Sep-2023**	06-Oct-2023	✓
EP132B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP132)							
BD1/20230922	**22-Sep-2023**	**27-Sep-2023**	29-Sep-2023	✓	**28-Sep-2023**	06-Nov-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230922	**22-Sep-2023**	**29-Sep-2023**	20-Mar-2024	✓	**30-Sep-2023**	20-Mar-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230922	**22-Sep-2023**	**29-Sep-2023**	20-Mar-2024	✓	**30-Sep-2023**	20-Mar-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230922	**22-Sep-2023**	**29-Sep-2023**	20-Mar-2024	✓	**30-Sep-2023**	20-Mar-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X-LL)							
BD1/20230922	**22-Sep-2023**	**29-Sep-2023**	20-Mar-2024	✓	**30-Sep-2023**	20-Mar-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	3	**33.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	1	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	1	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Total Phenol by Segmented Flow Analyser	EP035SF	WATER	In house: Referenced to ISO 14402. The sample is in-line-distilled at pH 1- 4. The distillate, containing steam-volatile phenolic compounds is then oxidised by hexacyanoferrate(III). The resulting quinones react with 4-aminoantipyrine forming red condensation products, which are measured spectrometrically in a flow spectrometer at 505 nm.. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	WATER	In house: Referenced to USEPA 3640 (GPC Cleanup), 8270 GCMS Capiliary column, SIM mode. This method is compliant with NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is concentrated, combined with an equal volume of reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.

Preparation Methods	Method	Matrix	Method Descriptions
Sep. Funnel Extraction /Acetylation of Phenolic Compounds	ORG14-AC	WATER	In house: Referenced to USEPA 3510 (Extraction) / In-house (Acetylation): A 1L sample is extracted into dichloromethane and concentrated to 1 mL with echange into cyclohexane. Phenolic compounds are reacted with acetic anhydride to yield phenyl acetates suitable for ultra-trace analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2332800**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: FERRERS RD	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: Banksmeadow		
Sampler	: PJ		

Dates

Date Samples Received	: 25-Sep-2023 15:50	Issue Date	: 26-Sep-2023
Client Requested Due Date	: 03-Oct-2023	Scheduled Reporting Date	: **03-Oct-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 16.0'C, 18.8'C - Ice Bricks present
Receipt Detail	: Hard Esky	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EP035SF Total Phenol by Segmented Flow Analyser	WATER - EP132B(PAH) Ultra Trace Polynuclear Aromatic Compounds	WATER - EP231-LL PFAS - Short Suite Low Level (12 analytes)	WATER - W-05 TRH/BTEXN/8 Metals
ES2332800-001	22-Sep-2023 00:00	BD1/20230922	✓	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L (dissolved metals)	Analytes: PFAS (short suite, low level)	Notes/ Preservation/ Additional Requirements
1	BD1/20230922	22-09-23	W	G/P	x	x	Please forward for interlab analysis

Relinquished by: EAS SYD
Anne Zhang
25/09/23 9:20AM

Environmental Division
Sydney
Work Order Reference
ES2332800

Telephone : + 61-2-8784 8555

Metals to analyse:			
Number of samples in container:	1	**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 3:30 pm, 22/9/23	**Date:**	22-09-23
		Signed:	

LAB RECEIPT	
Lab Ref. No:	
Received by:	EMILY W.
Date & Time:	22/9/23 1500
Signed:	EW.

Rec: RW
25/9/23 1550

CERTIFICATE OF ANALYSIS

Work Order	: **ES2338895**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 09-Nov-2023 16:10
Order number	: ----	Date Analysis Commenced	: 10-Nov-2023
C-O-C number	: ----	Issue Date	: 16-Nov-2023 17:15
Sampler	: PJ		
Site	: BANKSMEADOW		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP231X-LL: Poor matrix spike recoveries due to matrix interferences.
- EP132: Where reported, Total PAH reported as the sum of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and Benzo(g,h,i)perylene.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20231108	BD2/20231108	----	----	----
				Sampling date / time	08-Nov-2023 00:00	08-Nov-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2338895-001	ES2338895-002	--------	--------	--------
					Result	Result	----	----	----
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		**0.001**	**0.001**	----	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	<0.0001	----	----	----
Chromium	7440-47-3	0.001	mg/L		**0.002**	**0.006**	----	----	----
Copper	7440-50-8	0.001	mg/L		<0.001	**0.003**	----	----	----
Nickel	7440-02-0	0.001	mg/L		<0.001	**0.002**	----	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	----	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	<0.005	----	----	----
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	<0.0001	----	----	----
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L		<0.05	<0.05	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.5	µg/L		<0.5	<0.5	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5	<0.5	----	----	----
beta-BHC	319-85-7	0.5	µg/L		<0.5	<0.5	----	----	----
gamma-BHC	58-89-9	0.5	µg/L		<0.5	<0.5	----	----	----
delta-BHC	319-86-8	0.5	µg/L		<0.5	<0.5	----	----	----
Heptachlor	76-44-8	0.5	µg/L		<0.5	<0.5	----	----	----
Aldrin	309-00-2	0.5	µg/L		<0.5	<0.5	----	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5	<0.5	----	----	----
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5	<0.5	----	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5	<0.5	----	----	----
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5	<0.5	----	----	----
Dieldrin	60-57-1	0.5	µg/L		<0.5	<0.5	----	----	----
4.4`-DDE	72-55-9	0.5	µg/L		<0.5	<0.5	----	----	----
Endrin	72-20-8	0.5	µg/L		<0.5	<0.5	----	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5	<0.5	----	----	----
4.4`-DDD	72-54-8	0.5	µg/L		<0.5	<0.5	----	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5	<0.5	----	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5	<0.5	----	----	----
4.4`-DDT	50-29-3	2.0	µg/L		<2.0	<2.0	----	----	----
Endrin ketone	53494-70-5	0.5	µg/L		<0.5	<0.5	----	----	----
Methoxychlor	72-43-5	2.0	µg/L		<2.0	<2.0	----	----	----
^ **Total Chlordane (sum)**	----	0.5	µg/L		<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20231108	BD2/20231108	----	----	----
				Sampling date / time	08-Nov-2023 00:00	08-Nov-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2338895-001	ES2338895-002	--------	--------	--------
					Result	Result	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.5	µg/L		<0.5	<0.5	----	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.5	µg/L		<0.5	<0.5	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		**340**	**160**	----	----	----
C10 - C14 Fraction	----	50	µg/L		**100**	**220**	----	----	----
C15 - C28 Fraction	----	100	µg/L		<100	**200**	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	<50	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		**100**	**420**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		**400**	**190**	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		**60**	**70**	----	----	----
>C10 - C16 Fraction	----	100	µg/L		<100	**180**	----	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	**180**	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	<100	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	**360**	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	**170**	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	**9**	----	----	----
Toluene	108-88-3	2	µg/L		**234**	**22**	----	----	----
Ethylbenzene	100-41-4	2	µg/L		**66**	**6**	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		**30**	**82**	----	----	----
ortho-Xylene	95-47-6	2	µg/L		**10**	<2	----	----	----
^ **Total Xylenes**	----	2	µg/L		**40**	**82**	----	----	----
^ **Sum of BTEX**	----	1	µg/L		**340**	**119**	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	**11**	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons									
3-Methylcholanthrene	56-49-5	0.1	µg/L		<0.1	<0.1	----	----	----
2-Methylnaphthalene	91-57-6	0.1	µg/L		**0.4**	**0.2**	----	----	----
7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthene	83-32-9	0.1	µg/L		<0.1	<0.1	----	----	----
Acenaphthylene	208-96-8	0.1	µg/L		<0.1	<0.1	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20231108	BD2/20231108	----	----	----
				Sampling date / time	08-Nov-2023 00:00	08-Nov-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2338895-001	ES2338895-002	--------	--------	--------
					Result	Result	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons - Continued									
Anthracene	120-12-7	0.1	µg/L		<0.1	<0.1	----	----	----
Benz(a)anthracene	56-55-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(a)pyrene	50-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(e)pyrene	192-97-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.1	µg/L		<0.1	<0.1	----	----	----
Benzo(k)fluoranthene	207-08-9	0.1	µg/L		<0.1	<0.1	----	----	----
Chrysene	218-01-9	0.1	µg/L		<0.1	<0.1	----	----	----
Coronene	191-07-1	0.1	µg/L		<0.1	<0.1	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.1	µg/L		<0.1	<0.1	----	----	----
Fluoranthene	206-44-0	0.1	µg/L		<0.1	<0.1	----	----	----
Fluorene	86-73-7	0.1	µg/L		<0.1	<0.1	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L		<0.1	<0.1	----	----	----
Naphthalene	91-20-3	0.1	µg/L		**2.3**	**6.6**	----	----	----
Perylene	198-55-0	0.1	µg/L		<0.1	<0.1	----	----	----
Phenanthrene	85-01-8	0.1	µg/L		<0.1	<0.1	----	----	----
Pyrene	129-00-0	0.1	µg/L		<0.1	<0.1	----	----	----
^ **Sum of PAHs**	----	0.05	µg/L		**2.3**	**6.6**	----	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.05	µg/L		<0.10	<0.10	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L		<0.002	<0.002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L		**0.022**	**0.012**	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L		**0.136**	**0.062**	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L		**0.029**	**0.017**	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L		**0.023**	**0.020**	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L		**0.008**	**0.006**	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L		**0.007**	**0.007**	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BD1/20231108	BD2/20231108	----	----	----
				Sampling date / time	08-Nov-2023 00:00	08-Nov-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2338895-001	ES2338895-002	--------	--------	--------
					Result	Result	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L		<0.005	<0.005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L		**0.006**	**0.015**	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L		<0.005	<0.005	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L		<0.005	<0.005	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.002	µg/L		**0.158**	**0.074**	----	----	----
Sum of PFAS (WA DER List)	----	0.002	µg/L		**0.231**	**0.139**	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.5	%		**72.9**	**71.9**	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.5	%		**68.5**	**53.7**	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**78.6**	**83.1**	----	----	----
Toluene-D8	2037-26-5	2	%		**108**	**103**	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**117**	**126**	----	----	----
EP132T: Base/Neutral Extractable Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		**70.0**	**66.6**	----	----	----
Anthracene-d10	1719-06-8	0.1	%		**72.9**	**65.8**	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%		**72.0**	**66.8**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.002	%		**108**	**113**	----	----	----
13C8-PFOA	----	0.002	%		**106**	**99.5**	----	----	----

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	50	150
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	50	150
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137
EP132T: Base/Neutral Extractable Surrogates			
2-Fluorobiphenyl	321-60-8	43	135
Anthracene-d10	1719-06-8	48	138
4-Terphenyl-d14	1718-51-0	48	144
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

QUALITY CONTROL REPORT

Work Order	: **ES2338895**	Page	: 1 of 10
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 09-Nov-2023
Order number	: ----	Date Analysis Commenced	: 10-Nov-2023
C-O-C number	: ----	Issue Date	: 16-Nov-2023
Sampler	: PJ		
Site	: BANKSMEADOW		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP035SF: Total Phenol by Segmented Flow Analyser (QC Lot: 5419156)									
ES2338816-001	Anonymous	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EW2304951-002	Anonymous	EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG020F: Dissolved Metals by ICP-MS (QC Lot: 5422317)									
ES2338555-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
ES2338890-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.001	0.001	0.0	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.011	0.011	0.0	0% - 50%
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.102	0.101	0.0	0% - 20%
EG035F: Dissolved Mercury by FIMS (QC Lot: 5422318)									
ES2338661-011	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
ES2338890-001	Anonymous	EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5417742)									
ES2338895-001	BD1/20231108	EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5417742) - continued									
ES2338895-001	BD1/20231108	EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin	72-20-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	<2.0	0.0	No Limit
		EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	<2.0	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5417743)									
ES2338895-001	BD1/20231108	EP071: C15 - C28 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	µg/L	100	100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	50	µg/L	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5422352)									
ES2338848-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
ME2302036-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5417743)									
ES2338895-001	BD1/20231108	EP071: >C10 - C16 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C16 - C34 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	µg/L	<100	<100	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5422352)									
ES2338848-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
ME2302036-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 5422352)									
ES2338848-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	4	4	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 5422352) - continued									
ES2338848-001	Anonymous	EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
ME2302036-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5420579)									
ES2338565-020	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	14.8	16.0	7.5	0% - 20%
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	59.0	61.7	4.4	0% - 20%
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	14.3	16.2	12.2	0% - 20%
ES2338565-030	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	12.9	11.4	12.1	0% - 20%
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.100	<0.100	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5420579)									
ES2338565-020	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	2.11	2.29	8.5	0% - 20%
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	10.2	11.5	11.9	0% - 20%
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	57.8	59.5	2.9	0% - 20%
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	152	165	8.1	0% - 20%
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.50	<0.50	0.0	No Limit
ES2338565-030	Anonymous	EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	2.08	1.81	13.7	0% - 20%
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	5.09	4.48	12.7	0% - 20%
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	0.115	0.138	18.2	No Limit
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.50	<0.50	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5420579)									
ES2338565-020	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	58.7	63.1	7.2	0% - 20%
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	0.603	0.657	8.6	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.100	<0.100	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5420579) - continued									
ES2338565-030	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.100	<0.100	0.0	No Limit
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.100	<0.100	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5419156)								
EP035SF: Phenols (Total)	----	0.05	mg/L	<0.05	0.2 mg/L	88.6	70.9	123
EG020F: Dissolved Metals by ICP-MS (QCLot: 5422317)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	99.2	85.0	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	96.7	84.0	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	96.5	85.0	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	95.0	81.0	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	96.5	83.0	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	97.7	82.0	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	98.5	81.0	117
EG035F: Dissolved Mercury by FIMS (QCLot: 5422318)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	90.9	83.0	105
EP068A: Organochlorine Pesticides (OC) (QCLot: 5417742)								
EP068: alpha-BHC	319-84-6	0.5	µg/L	<0.5	5 µg/L	82.3	64.9	107
EP068: Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	<0.5	5 µg/L	83.3	58.3	111
EP068: beta-BHC	319-85-7	0.5	µg/L	<0.5	5 µg/L	81.1	69.0	117
EP068: gamma-BHC	58-89-9	0.5	µg/L	<0.5	5 µg/L	85.9	70.0	112
EP068: delta-BHC	319-86-8	0.5	µg/L	<0.5	5 µg/L	80.1	68.9	110
EP068: Heptachlor	76-44-8	0.5	µg/L	<0.5	5 µg/L	91.5	65.2	108
EP068: Aldrin	309-00-2	0.5	µg/L	<0.5	5 µg/L	86.0	65.8	109
EP068: Heptachlor epoxide	1024-57-3	0.5	µg/L	<0.5	5 µg/L	91.0	67.1	107
EP068: trans-Chlordane	5103-74-2	0.5	µg/L	<0.5	5 µg/L	89.8	64.1	110
EP068: alpha-Endosulfan	959-98-8	0.5	µg/L	<0.5	5 µg/L	84.5	66.7	112
EP068: cis-Chlordane	5103-71-9	0.5	µg/L	<0.5	5 µg/L	89.7	63.2	111
EP068: Dieldrin	60-57-1	0.5	µg/L	<0.5	5 µg/L	84.4	65.2	113
EP068: 4.4`-DDE	72-55-9	0.5	µg/L	<0.5	5 µg/L	84.7	66.0	112
EP068: Endrin	72-20-8	0.5	µg/L	<0.5	5 µg/L	102	65.2	113
EP068: beta-Endosulfan	33213-65-9	0.5	µg/L	<0.5	5 µg/L	75.9	67.3	114
EP068: 4.4`-DDD	72-54-8	0.5	µg/L	<0.5	5 µg/L	86.8	72.0	122
EP068: Endrin aldehyde	7421-93-4	0.5	µg/L	<0.5	5 µg/L	90.6	66.9	109
EP068: Endosulfan sulfate	1031-07-8	0.5	µg/L	<0.5	5 µg/L	84.8	65.2	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5417742) - continued								
EP068: 4.4`-DDT	50-29-3	2	µg/L	<2.0	5 µg/L	99.7	65.2	112
EP068: Endrin ketone	53494-70-5	0.5	µg/L	<0.5	5 µg/L	86.5	63.8	110
EP068: Methoxychlor	72-43-5	2	µg/L	<2.0	5 µg/L	99.4	61.1	114
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5417743)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	400 µg/L	71.5	53.7	97.0
EP071: C15 - C28 Fraction	----	100	µg/L	<100	600 µg/L	78.9	63.3	107
EP071: C29 - C36 Fraction	----	50	µg/L	<50	400 µg/L	77.5	58.3	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5422352)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	92.6	75.0	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5417743)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	500 µg/L	70.9	53.9	95.5
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	700 µg/L	79.5	57.8	110
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	300 µg/L	94.0	50.5	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5422352)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	82.6	75.0	127
EP080: BTEXN (QCLot: 5422352)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	84.4	68.3	119
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	90.9	73.5	120
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	87.7	73.8	122
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	104	73.0	122
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	104	76.4	123
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	91.5	75.5	124
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 5417738)								
EP132: 3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	2 µg/L	65.4	60.0	120
EP132: 2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	2 µg/L	66.6	59.0	123
EP132: 7.12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	2 µg/L	66.4	36.0	144
EP132: Acenaphthene	83-32-9	0.1	µg/L	<0.1	2 µg/L	72.5	64.0	122
EP132: Acenaphthylene	208-96-8	0.1	µg/L	<0.1	2 µg/L	72.3	64.0	126
EP132: Anthracene	120-12-7	0.1	µg/L	<0.1	2 µg/L	67.0	65.0	127
EP132: Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	2 µg/L	84.6	64.0	130
EP132: Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	2 µg/L	82.8	64.0	126
EP132: Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.1	µg/L	<0.1	2 µg/L	88.0	62.0	126
EP132: Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	2 µg/L	85.5	62.0	126

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 5417738) - continued								
EP132: Benzo(g.h.i)perylene	191-24-2	0.1	µg/L	<0.1	2 µg/L	85.8	56.0	126
EP132: Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	2 µg/L	84.2	68.0	130
EP132: Chrysene	218-01-9	0.1	µg/L	<0.1	2 µg/L	85.1	66.0	130
EP132: Coronene	191-07-1	0.1	µg/L	<0.1	2 µg/L	95.0	35.0	133
EP132: Dibenz(a.h)anthracene	53-70-3	0.1	µg/L	<0.1	2 µg/L	85.8	58.0	128
EP132: Fluoranthene	206-44-0	0.1	µg/L	<0.1	2 µg/L	83.4	65.0	127
EP132: Fluorene	86-73-7	0.1	µg/L	<0.1	2 µg/L	75.5	64.0	124
EP132: Indeno(1.2.3.cd)pyrene	193-39-5	0.1	µg/L	<0.1	2 µg/L	87.9	57.0	127
EP132: Naphthalene	91-20-3	0.1	µg/L	<0.1	2 µg/L	64.4	54.0	128
EP132: Perylene	198-55-0	0.1	µg/L	<0.1	2 µg/L	86.0	66.0	130
EP132: Phenanthrene	85-01-8	0.1	µg/L	<0.1	2 µg/L	78.7	65.0	129
EP132: Pyrene	129-00-0	0.1	µg/L	<0.1	2 µg/L	82.6	66.0	128
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5420579)								
EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	0.025 µg/L	78.3	72.0	130
EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	0.025 µg/L	91.1	68.0	131
EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	0.025 µg/L	95.2	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5420579)								
EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	0.125 µg/L	86.5	73.0	129
EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	0.025 µg/L	89.2	72.0	129
EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	0.025 µg/L	92.3	72.0	129
EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	0.025 µg/L	97.4	72.0	130
EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	0.025 µg/L	104	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5420579)								
EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	0.025 µg/L	90.5	63.0	143
EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	0.025 µg/L	94.1	64.0	140
EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	0.025 µg/L	98.8	67.0	138
EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	0.025 µg/L	115	75.2	137

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP035SF: Total Phenol by Segmented Flow Analyser (QCLot: 5419156)							
ES2338816-001	Anonymous	EP035SF: Phenols (Total)	----	0.2 mg/L	86.6	65.1	128
EG020F: Dissolved Metals by ICP-MS (QCLot: 5422317)							
ES2338661-011	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	98.6	70.0	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	98.9	70.0	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	99.4	70.0	130
		EG020A-F: Copper	7440-50-8	1 mg/L	96.6	70.0	130
		EG020A-F: Lead	7439-92-1	1 mg/L	101	70.0	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	99.4	70.0	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	99.0	70.0	130
EG035F: Dissolved Mercury by FIMS (QCLot: 5422318)							
ES2338563-001	Anonymous	EG035F: Mercury	7439-97-6	0.01 mg/L	89.1	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5417742)							
ES2338895-002	BD2/20231108	EP068: gamma-BHC	58-89-9	5 µg/L	88.5	70.0	130
		EP068: Heptachlor	76-44-8	5 µg/L	100	70.0	130
		EP068: Aldrin	309-00-2	5 µg/L	74.6	70.0	130
		EP068: Dieldrin	60-57-1	5 µg/L	106	70.0	130
		EP068: Endrin	72-20-8	20 µg/L	91.1	70.0	130
		EP068: 4.4`-DDT	50-29-3	20 µg/L	94.6	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5417743)							
ES2338895-002	BD2/20231108	EP071: C10 - C14 Fraction	----	200 µg/L	99.1	70.0	130
		EP071: C15 - C28 Fraction	----	250 µg/L	125	71.0	130
		EP071: C29 - C36 Fraction	----	200 µg/L	101	67.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5422352)							
ES2338848-001	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	94.1	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5417743)							
ES2338895-002	BD2/20231108	EP071: >C10 - C16 Fraction	----	250 µg/L	104	70.0	130
		EP071: >C16 - C34 Fraction	----	350 µg/L	94.4	75.0	130
		EP071: >C34 - C40 Fraction	----	150 µg/L	95.4	67.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5422352)							
ES2338848-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	90.6	70.0	130
EP080: BTEXN (QCLot: 5422352)							
ES2338848-001	Anonymous	EP080: Benzene	71-43-2	25 µg/L	98.0	70.0	130
		EP080: Toluene	108-88-3	25 µg/L	101	70.0	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	101	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	112	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080: BTEXN (QCLot: 5422352) - continued							
ES2338848-001	Anonymous	EP080: ortho-Xylene	95-47-6	25 µg/L	114	70.0	130
		EP080: Naphthalene	91-20-3	25 µg/L	99.3	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5420579)							
ES2338565-021	Anonymous	EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.025 µg/L	# Not Determined	72.0	130
		EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.025 µg/L	111	68.0	131
		EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.025 µg/L	88.8	65.0	140
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5420579)							
ES2338565-021	Anonymous	EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.125 µg/L	90.3	73.0	129
		EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.025 µg/L	# Not Determined	72.0	129
		EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.025 µg/L	# Not Determined	72.0	129
		EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.025 µg/L	111	72.0	130
		EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.025 µg/L	87.6	71.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5420579)							
ES2338565-021	Anonymous	EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.025 µg/L	74.4	63.0	143
		EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.025 µg/L	86.8	64.0	140
		EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.025 µg/L	74.8	67.0	138
		EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.025 µg/L	# 57.2	75.2	137

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2338895**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 3 8549 9600
Project	: 219609.01	Date Samples Received	: 09-Nov-2023
Site	: BANKSMEADOW	Issue Date	: 16-Nov-2023
Sampler	: PJ	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	ES2338565--021	Anonymous	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2338565--021	Anonymous	**Perfluoropentanoic acid (PFPeA)**	2706-90-3	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	ES2338565--021	Anonymous	**Perfluorohexanoic acid (PFHxA)**	307-24-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	ES2338565--021	Anonymous	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	57.2 %	75.2-137%	**Recovery less than lower data quality objective**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
	0				
Laboratory Duplicates (DUP)					
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	3	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	0	3	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container* / Client Sample ID(s)	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F)							
BD1/20231108, BD2/20231108	**08-Nov-2023**	**----**	----	**----**	**14-Nov-2023**	06-May-2024	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F)							
BD1/20231108, BD2/20231108	**08-Nov-2023**	**----**	----	**----**	**15-Nov-2023**	06-Dec-2023	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP035SF: Total Phenol by Segmented Flow Analyser								
Clear Plastic Bottle - Sulfuric Acid (EP035SF)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**----**	----	**----**	**13-Nov-2023**	06-Dec-2023	✓
EP068A: Organochlorine Pesticides (OC)								
Amber Glass Bottle - Unpreserved (EP068)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**13-Nov-2023**	15-Nov-2023	✓	**15-Nov-2023**	23-Dec-2023	✓
EP080/071: Total Petroleum Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP071)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**13-Nov-2023**	15-Nov-2023	✓	**16-Nov-2023**	23-Dec-2023	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**15-Nov-2023**	22-Nov-2023	✓	**15-Nov-2023**	22-Nov-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Amber Glass Bottle - Unpreserved (EP071)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**13-Nov-2023**	15-Nov-2023	✓	**16-Nov-2023**	23-Dec-2023	✓
Amber VOC Vial - Sulfuric Acid (EP080)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**15-Nov-2023**	22-Nov-2023	✓	**15-Nov-2023**	22-Nov-2023	✓
EP080: BTEXN								
Amber VOC Vial - Sulfuric Acid (EP080)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**15-Nov-2023**	22-Nov-2023	✓	**15-Nov-2023**	22-Nov-2023	✓
EP132B: Polynuclear Aromatic Hydrocarbons								
Amber Glass Bottle - Unpreserved (EP132)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**10-Nov-2023**	15-Nov-2023	✓	**13-Nov-2023**	20-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X-LL)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**14-Nov-2023**	06-May-2024	✓	**15-Nov-2023**	06-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X-LL)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**14-Nov-2023**	06-May-2024	✓	**15-Nov-2023**	06-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X-LL)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**14-Nov-2023**	06-May-2024	✓	**15-Nov-2023**	06-May-2024	✓
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X-LL)								
BD1/20231108,	BD2/20231108	**08-Nov-2023**	**14-Nov-2023**	06-May-2024	✓	**15-Nov-2023**	06-May-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	15	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	4	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	3	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	0	3	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
Total Phenol by Segmented Flow Analyser	EP035SF	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Total Phenol by Segmented Flow Analyser	EP035SF	WATER	In house: Referenced to ISO 14402. The sample is in-line-distilled at pH 1- 4. The distillate, containing steam-volatile phenolic compounds is then oxidised by hexacyanoferrate(III). The resulting quinones react with 4-aminoantipyrine forming red condensation products, which are measured spectrometrically in a flow spectrometer at 505 nm.. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)
Semivolatile Compounds by GCMS(SIM - Ultra-trace)	EP132	WATER	In house: Referenced to USEPA 3640 (GPC Cleanup), 8270 GCMS Capiliary column, SIM mode. This method is compliant with NEPM Schedule B(3)
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is concentrated, combined with an equal volume of reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions

Preparation Methods	Method	Matrix	Method Descriptions
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Sep. Funnel Extraction /Acetylation of Phenolic Compounds	ORG14-AC	WATER	In house: Referenced to USEPA 3510 (Extraction) / In-house (Acetylation): A 1L sample is extracted into dichloromethane and concentrated to 1 mL with echange into cyclohexane. Phenolic compounds are reacted with acetic anhydride to yield phenyl acetates suitable for ultra-trace analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2338895**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services EM
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Melbourne@alsglobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 3 8549 9600
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 219609.01	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: BANKSMEADOW		
Sampler	: PJ		

Dates

Date Samples Received	: 09-Nov-2023 16:10	Issue Date	: 10-Nov-2023
Client Requested Due Date	: 16-Nov-2023	Scheduled Reporting Date	: **16-Nov-2023**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 14.5'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 2 / 2

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EP035SF Total Phenol by Segmented Flow Analyser	WATER - EP068A (OC) OC Pesticides	WATER - EP132B(PAH) Ultra Trace Polynuclear Aromatic Compounds	WATER - EP231-LL PFAS - Short Suite Low Level (12 analytes)	WATER - W-05 TRH/BTEXN/8 Metals
ES2338895-001	08-Nov-2023 00:00	BD1/20231108	✓	✓	✓	✓	✓
ES2338895-002	08-Nov-2023 00:00	BD2/20231108	✓	✓	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	apinvoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au					**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☐ Freezer ☑ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)				

Lab ID	Sample ID: Location / Other ID	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: J-Jar P-Plastic B- Bag	Analytes: Combo 4L	OCP	PFAS (short suite, low level)										Notes/ Preservation/ Additional Requirements
1	BD1/20231108	8-11-23	W	G/P	x	x	x										Please forward for interlab analysis
2	BD2/20231108	8-11-23	W	G/P	x	x	x										Please forward for interlab analysis

Relinquished by Holly B
9/11/23
ESS syd 12:00

Environmental Division
Sydney
Work Order Reference
ES2338895

Telephone : +61-2-8784 8555

Metals to analyse:				**LAB RECEIPT**	
Number of samples in container:	2	**Transported to laboratory by:**	DP	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd			**Received by:**	
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666	**Date & Time:**	
Relinquished by:	PJ, 4:30 pm, 8/11/23	**Date:**	08-11-23 **Signed:**	**Signed:**	

Ashid 9/11 1610

337314 8/11/23 G2

Appendix K3

Soil Vapour

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 332246

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01**
Number of Samples	21 Air
Date samples received	05/09/2023
Date completed instructions received	05/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	12/09/2023
Date of Issue	12/09/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Amanda Chui, Air Toxics Team Leader
Dragana Tomas, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

TO15 in Canisters/Bags						
Our Reference		332246-1	332246-3	332246-5	332246-7	332246-9
Your Reference	UNITS	SV-301	SV-303	SV-304	SV-306	SV-328C
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air	Air
Air Kit Security No.		2278	1705	3280	2463	2242
Vacuum before Shipment	Hg"	-30	-30	-30	-30	-30
Vacuum before Analysis	Hg"	-7	-5	-7	-6	-7
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Propylene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Chloromethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorotetrafluoroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Butadiene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Ethanol	ppbv	<5	<5	<5	<5	<5
Acrolein	ppbv	<5	<5	<5	<5	<5
Trichlorofluoromethane (Freon 11)	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Acetone	ppbv	<5	<5	<5	<5	<5
Isopropyl Alcohol	ppbv	87	390	20	40	40
1,1-Dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ppbv	<5	<5	<5	<5	<5
Carbon Disulfide	ppbv	<5	<5	<5	<5	<5
trans-1,2-dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
MTBE	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,1- Dichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Acetate	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
MEK	ppbv	<5	<5	<5	<5	<5
Hexane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Ethyl Acetate	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	ppbv	<0.5	<0.5	<0.5	<0.5	0.6
Tetrahydrofuran	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5

TO15 in Canisters/Bags						
Our Reference		332246-1	332246-3	332246-5	332246-7	332246-9
Your Reference	UNITS	SV-301	SV-303	SV-304	SV-306	SV-328C
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air	Air
Air Kit Security No.		2278	1705	3280	2463	2242
Cyclohexane	ppbv	<0.5	<0.5	<0.5	0.7	<0.5
Heptane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Methacrylate	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
MIBK	ppbv	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	ppbv	3	21	4	9.9	2
1,1,2-Trichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Butyl Ketone	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ppbv	<0.5	<0.5	<0.5	<0.5	1
1,2-Dibromoethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ppbv	0.8	8.9	1	1	2
m-& p-Xylene	ppbv	3	53	3	3	3
Styrene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
o-Xylene	ppbv	0.8	12	0.8	0.8	0.9
Bromoform	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
4-ethyl toluene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	ppbv	<0.5	0.6	0.7	0.9	0.7
1,3-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Benzyl chloride	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachloro- 1,3-butadiene	ppbv	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate-Bromochloromethane	% rec	122	112	113	125	125
Surrogate -1,4-Difluorobenzene	% rec	121	111	113	125	123
Surrogate-Chlorobenzene-D5	% rec	114	105	108	118	126

TO15 in Canisters/Bags					
Our Reference		332246-11	332246-13	332246-15	332246-19
Your Reference	UNITS	SV-329B	SV-329C	SV-330	BD1/20230905
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air
Air Kit Security No.		2461	3497	3515	3300
Vacuum before Shipment	Hg"	-30	-30	-30	-30
Vacuum before Analysis	Hg"	-8	-9	-7	-6
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Propylene	ppbv	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	ppbv	<0.5	<0.5	<0.5	<0.5
Chloromethane	ppbv	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorotetrafluoroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	ppbv	<0.5	<0.5	2	<0.5
1,3-Butadiene	ppbv	<0.5	<0.5	<0.5	<0.5
Bromomethane	ppbv	<0.5	<0.5	<0.5	<0.5
Chloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Ethanol	ppbv	<5	5	6	<5
Acrolein	ppbv	<5	<5	<5	<5
Trichlorofluoromethane (Freon 11)	ppbv	0.9	<0.5	0.8	<0.5
Acetone	ppbv	<5	<5	<5	<5
Isopropyl Alcohol	ppbv	20	40	30	89
1,1-Dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	ppbv	<5	<5	<5	<5
Carbon Disulfide	ppbv	<5	<5	<5	<5
trans-1,2-dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5
MTBE	ppbv	<0.5	<0.5	<0.5	<0.5
1,1- Dichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Vinyl Acetate	ppbv	<0.5	<0.5	<0.5	<0.5
MEK	ppbv	<5	<5	<5	<5
Hexane	ppbv	0.9	3	0.6	<0.5
cis-1,2-Dichloroethene	ppbv	<0.5	<0.5	<0.5	<0.5
Ethyl Acetate	ppbv	<0.5	<0.5	<0.5	<0.5
Chloroform	ppbv	<0.5	0.7	0.6	<0.5
Tetrahydrofuran	ppbv	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Benzene	ppbv	<0.5	<0.5	0.7	<0.5
Carbon tetrachloride	ppbv	<0.5	<0.5	<0.5	<0.5

TO15 in Canisters/Bags					
Our Reference		332246-11	332246-13	332246-15	332246-19
Your Reference	UNITS	SV-329B	SV-329C	SV-330	BD1/20230905
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air
Air Kit Security No.		2461	3497	3515	3300
Cyclohexane	ppbv	<0.5	<0.5	<0.5	<0.5
Heptane	ppbv	<0.5	<0.5	<0.5	<0.5
Trichloroethene	ppbv	1	<0.5	<0.5	<0.5
1,2-Dichloropropane	ppbv	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	ppbv	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	ppbv	<0.5	<0.5	<0.5	<0.5
Methyl Methacrylate	ppbv	<0.5	<0.5	<0.5	<0.5
MIBK	ppbv	<5	<5	<5	<5
cis-1,3-Dichloropropene	ppbv	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	ppbv	<0.5	<0.5	<0.5	<0.5
Toluene	ppbv	3	4	2	4
1,1,2-Trichloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
Methyl Butyl Ketone	ppbv	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	ppbv	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	ppbv	1	<0.5	0.8	<0.5
1,2-Dibromoethane	ppbv	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ppbv	8.0	2	3	1
m-& p-Xylene	ppbv	19	4	4	3
Styrene	ppbv	<0.5	<0.5	<0.5	<0.5
o-Xylene	ppbv	5	1	1	0.9
Bromoform	ppbv	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ppbv	<0.5	<0.5	<0.5	<0.5
4-ethyl toluene	ppbv	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	ppbv	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	ppbv	1	0.8	0.8	<0.5
1,3-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5
Benzyl chloride	ppbv	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	ppbv	<0.5	<0.5	<0.5	<0.5
Naphthalene	ppbv	<0.5	<0.5	<0.5	<0.5
Hexachloro- 1,3-butadiene	ppbv	<0.5	<0.5	<0.5	<0.5
Surrogate-Bromochloromethane	% rec	126	119	116	117
Surrogate -1,4-Difluorobenzene	% rec	129	123	120	122
Surrogate-Chlorobenzene-D5	% rec	122	116	113	115

TO15 in Canisters µg/m3						
Our Reference		332246-1	332246-3	332246-5	332246-7	332246-9
Your Reference	UNITS	SV-301	SV-303	SV-304	SV-306	SV-328C
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air	Air
Air Kit Security No.		2278	1705	3280	2463	2242
Vacuum before Shipment	Hg"	-30	-30	-30	-30	-30
Vacuum before Analysis	Hg"	-7	-5	-7	-6	-7
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Propylene	µg/m³	<0.9	<0.9	<0.9	<0.9	<0.9
Dichlorodifluoromethane	µg/m³	<2.5	<2.5	<2.5	<2.5	<2.5
Chloromethane	µg/m³	<1	<1	<1	<1	<1
1,2-Dichlorotetrafluoroethane	µg/m³	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl chloride	µg/m³	<1.3	<1.3	<1.3	<1.3	<1.3
1,3-Butadiene	µg/m³	<1.1	<1.1	<1.1	<1.1	<1.1
Bromomethane	µg/m³	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroethane	µg/m³	<1.3	<1.3	<1.3	<1.3	<1.3
Ethanol	µg/m³	<9	<9	<9	<9	<9
Acrolein	µg/m³	<11	<11	<11	<11	<11
Trichlorofluoromethane (Freon 11)	µg/m³	<2.8	<2.8	<2.8	<2.8	<2.8
Acetone	µg/m³	<11.9	<11.9	<11.9	<11.9	<11.9
Isopropyl Alcohol	µg/m³	210	970	60	90	90
1,1-Dichloroethene	µg/m³	<2	<2	<2	<2	<2
1,1,2-Trichlorotrifluoroethane	µg/m³	<3.8	<3.8	<3.8	<3.8	<3.8
Methylene chloride (Dichloromethane)	µg/m³	<17	<17	<17	<17	<17
Carbon Disulfide	µg/m³	<16	<16	<16	<16	<16
trans-1,2-dichloroethene	µg/m³	<2	<2	<2	<2	<2
MTBE	µg/m³	<1.8	<1.8	<1.8	<1.8	<1.8
1,1- Dichloroethane	µg/m³	<2	<2	<2	<2	<2
Vinyl Acetate	µg/m³	<1.8	<1.8	<1.8	<1.8	<1.8
MEK	µg/m³	<15	<15	<15	<15	<15
Hexane	µg/m³	<1.8	<1.8	<1.8	<1.8	<1.8
cis-1,2-Dichloroethene	µg/m³	<2	<2	<2	<2	<2
Ethyl Acetate	µg/m³	<1.8	<1.8	<1.8	<1.8	<1.8
Chloroform	µg/m³	<2.4	<2.4	<2.4	<2.4	3
Tetrahydrofuran	µg/m³	<1.5	<1.5	<1.5	<1.5	<1.5
1,1,1-Trichloroethane	µg/m³	<2.7	<2.7	<2.7	<2.7	<2.7
1,2-Dichloroethane	µg/m³	<2	<2	<2	<2	<2
Benzene	µg/m³	<1.6	<1.6	<1.6	<1.6	<1.6
Carbon tetrachloride	µg/m³	<3.1	<3.1	<3.1	<3.1	<3.1

TO15 in Canisters µg/m3						
Our Reference		332246-1	332246-3	332246-5	332246-7	332246-9
Your Reference	UNITS	SV-301	SV-303	SV-304	SV-306	SV-328C
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air	Air
Air Kit Security No.		2278	1705	3280	2463	2242
Cyclohexane	µg/m³	<1.7	<1.7	<1.7	2	<1.7
Heptane	µg/m³	<2	<2	<2	<2	<2
Trichloroethene	µg/m³	<2.7	<2.7	<2.7	<2.7	<2.7
1,2-Dichloropropane	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
1,4-Dioxane	µg/m³	<1.8	<1.8	<1.8	<1.8	<1.8
Bromodichloromethane	µg/m³	<3.4	<3.4	<3.4	<3.4	<3.4
Methyl Methacrylate	µg/m³	<2	<2	<2	<2	<2
MIBK	µg/m³	<20	<20	<20	<20	<20
cis-1,3-Dichloropropene	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
trans-1,3-Dichloropropene	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
Toluene	µg/m³	10	80	20	37	9
1,1,2-Trichloroethane	µg/m³	<2.7	<2.7	<2.7	<2.7	<2.7
Methyl Butyl Ketone	µg/m³	<2	<2	<2	<2	<2
Dibromochloromethane	µg/m³	<1.6	<1.6	<1.6	<1.6	<1.6
Tetrachloroethene	µg/m³	<3.4	<3.4	<3.4	<3.4	7
1,2-Dibromoethane	µg/m³	<3.8	<3.8	<3.8	<3.8	<3.8
Chlorobenzene	µg/m³	<2.3	<2.3	<2.3	<2.3	<2.3
Ethylbenzene	µg/m³	4	38	6	5	8
m-& p-Xylene	µg/m³	10	230	10	10	10
Styrene	µg/m³	<2.1	<2.1	<2.1	<2.1	<2.1
o-Xylene	µg/m³	3	54	4	3	4
Bromoform	µg/m³	<5.2	<5.2	<5.2	<5.2	<5.2
1,1,2,2-Tetrachloroethane	µg/m³	<3.4	<3.4	<3.4	<3.4	<3.4
4-ethyl toluene	µg/m³	<2.5	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	µg/m³	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	µg/m³	<2.5	3	3	4	4
1,3-Dichlorobenzene	µg/m³	<3	<3	<3	<3	<3
Benzyl chloride	µg/m³	<2.6	<2.6	<2.6	<2.6	<2.6
1,4-Dichlorobenzene	µg/m³	<3	<3	<3	<3	<3
1,2-Dichlorobenzene	µg/m³	<3	<3	<3	<3	<3
1,2,4-Trichlorobenzene	µg/m³	<3.7	<3.7	<3.7	<3.7	<3.7
Naphthalene	µg/m³	<2.6	<2.6	<2.6	<2.6	<2.6
Hexachloro- 1,3-butadiene	µg/m³	<5.3	<5.3	<5.3	<5.3	<5.3
Surrogate-Bromochloromethane	% rec	122	112	113	125	125
Surrogate -1,4-Difluorobenzene	% rec	121	111	113	125	123
Surrogate-Chlorobenzene-D5	% rec	114	105	108	118	126

TO15 in Canisters µg/m3					
Our Reference		332246-11	332246-13	332246-15	332246-19
Your Reference	UNITS	SV-329B	SV-329C	SV-330	BD1/20230905
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air
Air Kit Security No.		2461	3497	3515	3300
Vacuum before Shipment	Hg"	-30	-30	-30	-30
Vacuum before Analysis	Hg"	-8	-9	-7	-6
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Propylene	µg/m³	<0.9	<0.9	8	<0.9
Dichlorodifluoromethane	µg/m³	<2.5	<2.5	<2.5	<2.5
Chloromethane	µg/m³	<1	<1	<1	<1
1,2-Dichlorotetrafluoroethane	µg/m³	<2.5	<2.5	<2.5	<2.5
Vinyl chloride	µg/m³	<1.3	<1.3	5	<1.3
1,3-Butadiene	µg/m³	<1.1	<1.1	<1.1	<1.1
Bromomethane	µg/m³	<1.9	<1.9	<1.9	<1.9
Chloroethane	µg/m³	<1.3	<1.3	<1.3	<1.3
Ethanol	µg/m³	<9	10	10	<9
Acrolein	µg/m³	<11	<11	<11	<11
Trichlorofluoromethane (Freon 11)	µg/m³	5	<2.8	4	<2.8
Acetone	µg/m³	<11.9	<11.9	<11.9	<11.9
Isopropyl Alcohol	µg/m³	40	100	60	220
1,1-Dichloroethene	µg/m³	<2	<2	<2	<2
1,1,2-Trichlorotrifluoroethane	µg/m³	<3.8	<3.8	<3.8	<3.8
Methylene chloride (Dichloromethane)	µg/m³	<17	<17	<17	<17
Carbon Disulfide	µg/m³	<16	<16	<16	<16
trans-1,2-dichloroethene	µg/m³	<2	<2	<2	<2
MTBE	µg/m³	<1.8	<1.8	<1.8	<1.8
1,1- Dichloroethane	µg/m³	<2	<2	<2	<2
Vinyl Acetate	µg/m³	<1.8	<1.8	<1.8	<1.8
MEK	µg/m³	<15	<15	<15	<15
Hexane	µg/m³	3	10	2	<1.8
cis-1,2-Dichloroethene	µg/m³	<2	<2	<2	<2
Ethyl Acetate	µg/m³	<1.8	<1.8	<1.8	<1.8
Chloroform	µg/m³	<2.4	4	3	<2.4
Tetrahydrofuran	µg/m³	<1.5	<1.5	<1.5	<1.5
1,1,1-Trichloroethane	µg/m³	<2.7	<2.7	<2.7	<2.7
1,2-Dichloroethane	µg/m³	<2	<2	<2	<2
Benzene	µg/m³	<1.6	<1.6	2	<1.6
Carbon tetrachloride	µg/m³	<3.1	<3.1	<3.1	<3.1

TO15 in Canisters µg/m3					
Our Reference		332246-11	332246-13	332246-15	332246-19
Your Reference	UNITS	SV-329B	SV-329C	SV-330	BD1/20230905
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air
Air Kit Security No.		2461	3497	3515	3300
Cyclohexane	µg/m³	<1.7	<1.7	<1.7	<1.7
Heptane	µg/m³	<2	<2	<2	<2
Trichloroethene	µg/m³	7	<2.7	<2.7	<2.7
1,2-Dichloropropane	µg/m³	<2.3	<2.3	<2.3	<2.3
1,4-Dioxane	µg/m³	<1.8	<1.8	<1.8	<1.8
Bromodichloromethane	µg/m³	<3.4	<3.4	<3.4	<3.4
Methyl Methacrylate	µg/m³	<2	<2	<2	<2
MIBK	µg/m³	<20	<20	<20	<20
cis-1,3-Dichloropropene	µg/m³	<2.3	<2.3	<2.3	<2.3
trans-1,3-Dichloropropene	µg/m³	<2.3	<2.3	<2.3	<2.3
Toluene	µg/m³	10	10	7	20
1,1,2-Trichloroethane	µg/m³	<2.7	<2.7	<2.7	<2.7
Methyl Butyl Ketone	µg/m³	<2	<2	<2	<2
Dibromochloromethane	µg/m³	<1.6	<1.6	<1.6	<1.6
Tetrachloroethene	µg/m³	10	<3.4	6	<3.4
1,2-Dibromoethane	µg/m³	<3.8	<3.8	<3.8	<3.8
Chlorobenzene	µg/m³	<2.3	<2.3	<2.3	<2.3
Ethylbenzene	µg/m³	35	8	10	4
m-& p-Xylene	µg/m³	81	20	20	10
Styrene	µg/m³	<2.1	<2.1	<2.1	<2.1
o-Xylene	µg/m³	20	5	5	4
Bromoform	µg/m³	<5.2	<5.2	<5.2	<5.2
1,1,2,2-Tetrachloroethane	µg/m³	<3.4	<3.4	<3.4	<3.4
4-ethyl toluene	µg/m³	<2.5	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	µg/m³	<2.5	<2.5	<2.5	<2.5
1,2,4-Trimethylbenzene	µg/m³	5	4	4	<2.5
1,3-Dichlorobenzene	µg/m³	<3	<3	<3	<3
Benzyl chloride	µg/m³	<2.6	<2.6	<2.6	<2.6
1,4-Dichlorobenzene	µg/m³	<3	<3	<3	<3
1,2-Dichlorobenzene	µg/m³	<3	<3	<3	<3
1,2,4-Trichlorobenzene	µg/m³	<3.7	<3.7	<3.7	<3.7
Naphthalene	µg/m³	<2.6	<2.6	<2.6	<2.6
Hexachloro- 1,3-butadiene	µg/m³	<5.3	<5.3	<5.3	<5.3
Surrogate-Bromochloromethane	% rec	126	119	116	117
Surrogate -1,4-Difluorobenzene	% rec	129	123	120	122
Surrogate-Chlorobenzene-D5	% rec	122	116	113	115

TPH Air/ Air Phase Hydrocarbon						
Our Reference		332246-1	332246-3	332246-5	332246-7	332246-9
Your Reference	UNITS	SV-301	SV-303	SV-304	SV-306	SV-328C
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air	Air
Air Kit Security No.		2278	1705	3280	2463	2242
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023	07/09/2023
TPH C_5 - C_8 Aliphatic	µg/m³	<200	620	280	540	<200
TPH C_9 - C_{12} Aliphatic	µg/m³	<50	92	1,000	1,000	<50
TPH C_9 - C_{10} Aromatic	µg/m³	<100	<100	<100	<100	<100
TPH C_6 - C_{10} - BTEX (F1)	µg/m³	<200	<200	820	480	<200
TPH >C_{10} - C_{12} - Naphthalene (F2)	µg/m³	50	80	780	840	<40

TPH Air/ Air Phase Hydrocarbon					
Our Reference		332246-11	332246-13	332246-15	332246-19
Your Reference	UNITS	SV-329B	SV-329C	SV-330	BD1/20230905
Date Sampled		05/09/2023	05/09/2023	05/09/2023	05/09/2023
Type of sample		Air	Air	Air	Air
Air Kit Security No.		2461	3497	3515	3300
Date prepared	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
Date analysed	-	07/09/2023	07/09/2023	07/09/2023	07/09/2023
TPH C_5 - C_8 Aliphatic	µg/m³	<200	<200	<200	<200
TPH C_9 - C_{12} Aliphatic	µg/m³	<50	<50	<50	<50
TPH C_9 - C_{10} Aromatic	µg/m³	<100	<100	<100	<100
TPH C_6 - C_{10} - BTEX (F1)	µg/m³	<200	<200	<200	<200
TPH >C_{10} - C_{12} - Naphthalene (F2)	µg/m³	<40	70	60	<40

IPA in Carbon Tubes & Badges		
Our Reference		332246-21
Your Reference	UNITS	Shroud 1/20230905
Date Sampled		05/09/2023
Type of sample		Air
Air Kit Security No.		0140110203
Date Extracted	-	07/09/2023
Date Analysed	-	08/09/2023
Tube Sampling rate	mL/min	84
Tube Sampling Time	mins	1.0
Volume sampled	m^3	0.000084
Isopropyl Alcohol*	µg	69,000
Isopropyl Alcohol*	$µg/m^3$	821,428,571.4
Surrogate Toluene-d8	%	102
Surrogate 4-Bromofluorobenzene	%	78

Method ID	Methodology Summary
AT-005	Measurement of Air-Phase Petroleum Hydrocarbons and Ozone Precursors by GC-MS.
ORG-022	Determination of volatile organic compounds in charcoal tubes/badges/sorbents using CS2 extraction, determined by GC/GC-MS. Desorption efficiencies are not applied to results. Note where µg/m^3 results are supplied for SKC badges, the factors used are for 575-001, if 575-001 data is unavailable for an analyte then use 575-002 then 575-003 (exposure time must be supplied). Otherwise a sampling rate may be used for a similar analyte on request. Analytes such as (where applicable) Iodomethane, Chloroprene, Nitrobenzene, Naphthalene and 1, 2, 3 // 1, 2, 4 Trichlorobenzenes are considered to be semi-quant analyses using CS2 desorption from charcoal tubes. The latter three compounds are better served by XAD-2 collection and analysis. Note - air volume measurements are not covered by Envirolab's NATA accreditation.
TO15	USEPA TO15 - Analysis of VOC's in air using USEPA TO15 and in house method AT-002. Note, longer term stability of some oxygenated compounds is questionable where significant humidity is present.
USEPA 18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography using USEPA m18.

QUALITY CONTROL: TO15 in Canisters/Bags					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-7	-7	0	[NT]	[NT]
Date prepared	-			07/09/2023	1	07/09/2023	07/09/2023		07/09/2023	[NT]
Date analysed	-			07/09/2023	1	07/09/2023	07/09/2023		07/09/2023	[NT]
Propylene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	128	[NT]
Dichlorodifluoromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Vinyl chloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,3-Butadiene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bromomethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethanol	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Acrolein	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Acetone	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Isopropyl Alcohol	ppbv	5	TO15	<5	1	87	85	2	[NT]	[NT]
1,1-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Carbon Disulfide	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
trans-1,2-dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MTBE	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1- Dichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Vinyl Acetate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MEK	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Hexane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	95	[NT]
cis-1,2-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethyl Acetate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloroform	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Tetrahydrofuran	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,1-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Benzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	105	[NT]
Carbon tetrachloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Cyclohexane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	72	[NT]
Heptane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	100	[NT]

QUALITY CONTROL: TO15 in Canisters/Bags						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Trichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichloropropane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-Dioxane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bromodichloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methyl Methacrylate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MIBK	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
cis-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
trans-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Toluene	ppbv	0.5	TO15	<0.5	1	3	3	0	103	[NT]
1,1,2-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methyl Butyl Ketone	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Dibromochloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dibromoethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	ppbv	0.5	TO15	<0.5	1	0.8	0.8	0	107	[NT]
m-& p-Xylene	ppbv	1	TO15	<1	1	3	3	0	104	[NT]
Styrene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	126	[NT]
o-Xylene	ppbv	0.5	TO15	<0.5	1	0.8	0.7	13	101	[NT]
Bromoform	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
4-ethyl toluene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	111	[NT]
1,3,5-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	103	[NT]
1,2,4-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	114	[NT]
1,3-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Benzyl chloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2,4-Trichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Naphthalene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	101	1	122	116	5	113	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	95	1	121	114	6	111	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	90	1	114	109	4	108	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-7	-7	0	[NT]	[NT]
Date prepared	-			07/09/2023	1	07/09/2023	07/09/2023		[NT]	[NT]
Date analysed	-			07/09/2023	1	07/09/2023	07/09/2023		[NT]	[NT]
Propylene	µg/m³	0.9	TO15	<0.9	1	<0.9	<0.9	0	[NT]	[NT]
Dichlorodifluoromethane	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
Chloromethane	µg/m³	1.0	TO15	<1.0	1	<1	<1	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
Vinyl chloride	µg/m³	1.3	TO15	<1.3	1	<1.3	<1.3	0	[NT]	[NT]
1,3-Butadiene	µg/m³	1.1	TO15	<1.1	1	<1.1	<1.1	0	[NT]	[NT]
Bromomethane	µg/m³	1.9	TO15	<1.9	1	<1.9	<1.9	0	[NT]	[NT]
Chloroethane	µg/m³	1.3	TO15	<1.3	1	<1.3	<1.3	0	[NT]	[NT]
Ethanol	µg/m³	9	TO15	<9	1	<9	<9	0	[NT]	[NT]
Acrolein	µg/m³	11	TO15	<11	1	<11	<11	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	µg/m³	2.8	TO15	<2.8	1	<2.8	<2.8	0	[NT]	[NT]
Acetone	µg/m³	11.9	TO15	<11.9	1	<11.9	<11.9	0	[NT]	[NT]
Isopropyl Alcohol	µg/m³	12	TO15	<12	1	210	210	0	[NT]	[NT]
1,1-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	µg/m³	3.8	TO15	<3.8	1	<3.8	<3.8	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	µg/m³	17	USEPA 18	<17	1	<17	<17	0	[NT]	[NT]
Carbon Disulfide	µg/m³	16	TO15	<16	1	<16	<16	0	[NT]	[NT]
trans-1,2-dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
MTBE	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
1,1- Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Vinyl Acetate	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
MEK	µg/m³	15	TO15	<15	1	<15	<15	0	[NT]	[NT]
Hexane	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
cis-1,2-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Ethyl Acetate	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
Chloroform	µg/m³	2.4	TO15	<2.4	1	<2.4	<2.4	0	[NT]	[NT]
Tetrahydrofuran	µg/m³	1.5	TO15	<1.5	1	<1.5	<1.5	0	[NT]	[NT]
1,1,1-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
1,2-Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Benzene	µg/m³	1.6	TO15	<1.6	1	<1.6	<1.6	0	[NT]	[NT]
Carbon tetrachloride	µg/m³	3.1	TO15	<3.1	1	<3.1	<3.1	0	[NT]	[NT]
Cyclohexane	µg/m³	1.7	TO15	<1.7	1	<1.7	<1.7	0	[NT]	[NT]
Heptane	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Trichloroethene	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
1,2-Dichloropropane	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
1,4-Dioxane	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
Bromodichloromethane	µg/m³	3.4	TO15	<3.4	1	<3.4	<3.4	0	[NT]	[NT]
Methyl Methacrylate	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
MIBK	µg/m³	20	TO15	<20	1	<20	<20	0	[NT]	[NT]
cis-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
trans-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
Toluene	µg/m³	1.9	TO15	<1.9	1	10	10	0	[NT]	[NT]
1,1,2-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
Methyl Butyl Ketone	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Dibromochloromethane	µg/m³	1.6	TO15	<1.6	1	<1.6	<1.6	0	[NT]	[NT]
Tetrachloroethene	µg/m³	3.4	TO15	<3.4	1	<3.4	<3.4	0	[NT]	[NT]
1,2-Dibromoethane	µg/m³	3.8	TO15	<3.8	1	<3.8	<3.8	0	[NT]	[NT]
Chlorobenzene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
Ethylbenzene	µg/m³	2.2	TO15	<2.2	1	4	3	29	[NT]	[NT]
m-& p-Xylene	µg/m³	4.3	TO15	<4.3	1	10	10	0	[NT]	[NT]
Styrene	µg/m³	2.1	TO15	<2.1	1	<2.1	<2.1	0	[NT]	[NT]
o-Xylene	µg/m³	2.2	TO15	<2.2	1	3	3	0	[NT]	[NT]
Bromoform	µg/m³	5.2	TO15	<5.2	1	<5.2	<5.2	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	µg/m³	3.4	TO15	<3.4	1	<3.4	<3.4	0	[NT]	[NT]
4-ethyl toluene	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
1,3,5-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
1,2,4-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
1,3-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
Benzyl chloride	µg/m³	2.6	TO15	<2.6	1	<2.6	<2.6	0	[NT]	[NT]
1,4-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
1,2-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
1,2,4-Trichlorobenzene	µg/m³	3.7	TO15	<3.7	1	<3.7	<3.7	0	[NT]	[NT]
Naphthalene	µg/m³	2.6	TO15	<2.6	1	<2.6	<2.6	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	µg/m³	5.3	TO15	<5.3	1	<5.3	<5.3	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	101	1	122	116	5	[NT]	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	95	1	121	114	6	[NT]	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	90	1	114	109	4	[NT]	[NT]

QUALITY CONTROL: TPH Air/ Air Phase Hydrocarbon						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			07/09/2023	1	07/09/2023	07/09/2023		07/09/2023	[NT]
Date analysed	-			07/09/2023	1	07/09/2023	07/09/2023		07/09/2023	[NT]
TPH C_5 - C_8 Aliphatic	µg/m^3	200	AT-005	<200	1	<200	<200	0	89	[NT]
TPH C_9 - C_{12} Aliphatic	µg/m^3	50	AT-005	<50	1	<50	<50	0	[NT]	[NT]
TPH C_9 - C_{10} Aromatic	µg/m^3	100	AT-005	<100	1	<100	<100	0	95	[NT]
TPH C_6 - C_{10} - BTEX (F1)	µg/m^3	200	TO15	<200	1	<200	<200	0	96	[NT]
TPH >C_{10} - C_{12} - Naphthalene (F2)	µg/m^3	40	TO15	<40	1	50	<40	22	94	[NT]

QUALITY CONTROL: IPA in Carbon Tubes & Badges						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date Extracted	-			07/09/2023	[NT]	[NT]	[NT]	[NT]	07/09/2023	[NT]
Date Analysed	-			08/09/2023	[NT]	[NT]	[NT]	[NT]	08/09/2023	[NT]
Isopropyl Alcohol*	µg	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	66	[NT]
Surrogate Toluene-d8	%		ORG-022	106	[NT]	[NT]	[NT]	[NT]	111	[NT]
Surrogate 4-Bromofluorobenzene	%		ORG-022	95	[NT]	[NT]	[NT]	[NT]	108	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01
Envirolab Reference	332246
Date Sample Received	05/09/2023
Date Instructions Received	05/09/2023
Date Results Expected to be Reported	12/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	21 Air
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	n/a
Cooling Method	Not applicable
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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Sample ID	TO15 in Canisters/Bags	TO15 in Canisters µg/m3	TPH Air/ Air Phase Hydrocarbon	IPA in Carbon Tubes & Badges	On Hold
SV-301	✓	✓	✓		
SV-301					✓
SV-303	✓	✓	✓		
SV-303					✓
SV-304	✓	✓	✓		
SV-304					✓
SV-306	✓	✓	✓		
SV-306					✓
SV-328C	✓	✓	✓		
SV-328C					✓
SV-329B	✓	✓	✓		
SV-329B					✓
SV-329C	✓	✓	✓		
SV-329C					✓
SV-330	✓	✓	✓		
SV-330					✓
SV-331					✓
SV-331					✓
BD1/20230905	✓	✓	✓		
BD1/20230905					✓
Shroud 1/20230905				✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

COC: 5/9/23 1703

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Name:	Contamination Investigation	**Order Number**	ELS Quote No. 23SY225		12 Ashley Street Chatswood
Project Manager:	David Holden	**Sampler:**	PJ	**Attn:**	Daniel Ford
Emails:	david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au				
Date Required:	Std				
Prior Storage:	shelf	Do samples contain 'potential' HBM?	Yes ☐ No ☐ (If YES, then handle, transport and store in accordance with FPM HAZID)		

Sample ID	Lab ID	Date Sampled	Sample Type (S - surma cainister C - Carbon tube)	Serial No.s: Canister / Tube ID	Serial No.s: Regulator ID	Analytes: TO15	Analytes: TO17	Analytes: Hold	Analytes: TPH	Analytes: IPA	Sample Details: Start Vacuum	Sample Details: Stop Vaccum	Sample Details: Sample Duration	Sample Details: Flow Rate	Sample Details:	Sample Details: PID	Comments / Weather
SV-301	1	05-09-23	S	2278	1870	X			X		-28	-7		100		0	
SV-301	2	05-09-23	C	0 171504143				X					5	84.5			
SV-303	3	05-09-23	S	1705	610	X			X		-30	-7		100		1	
SV-303	4	05-09-23	C	0 140110255				X					5	84.5			
SV-304	5	05-09-23	S	1835 3280	497	X			X		-29	-7		100		0.7	
SV-304	6	05-09-23	C	0 171504405				X					5	84.5			
SV-306	7	05-09-23	S	2463	617	X			X		-29	-7		100		0.8	
SV-306	8	05-09-23	C	0 140110270				X					5	84.5			
SV-328C	9	05-09-23	S	2242	818	X			X		-27	-7		100		1.1	
SV-328C	10	05-09-23	C	0 140110249				X					5	84.5			
SV-329B	11	05-09-23	S	1686 3286	1751	X			X		-28	-7		100		0.8	
SV-329B	12	05-09-23	C	0 140110257				X					5	84.5			
SV-329C	13	05-09-23	S	1092 3497	1749	X			X		-28	-7		100		0.6	
SV-329C	14	05-09-23	C	0 140110251				X					5	84.5			
PQL (S) mg/kg																	

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No:

Total number of samples in container: 21 **Relinquished by:** PJ **Transported to laboratory by:** Courier

Send Results to: Douglas Partners Pty Ltd **Address:** **Phone:** **Fax:**

Signed: Patrick Johansson, 5/9/23, 4 pm **Received by:** **Date & Time:**

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 332246

Date Received: 5/9/23
Time Received: 16:00
Received By: SW
Temp: Cool/Ambient
~~Cooling: Ice/Icepack~~
Security: Intact/Broken/None

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Name:	Contamination Investigation	**Order Number**	ELS Quote No. 23SY225		12 Ashley Street Chatswood
Project Manager:	David Holden	**Sampler:**	PJ	**Attn:**	Daniel Ford
Emails:	david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au				
Date Required:	Std				
Prior Storage:	shelf	Do samples contain 'potential' HBM?	Yes ☐ No ☐ (If YES, then handle, transport and store in accordance with FPM HAZID)		

Sample ID	Lab ID	Sampling Date	Sample Type	Serial No.s		Analytes											Notes/preservation
				Canister / Tube ID	Regulator ID	TO15	TO17	Hold	TPH	IPA	Start Vacuum	Stop Vaccum	Sample Duration	Flow Rate		PID	
SV-330	15	05-09-23	S	3515	1779	X			X		-28	-7		100		0.7	
SV-330	16	05-09-23	C	0 171504144				X					5	84.5			
SV-331	17	05-09-23	S	2529	2085	X			X		-29	-6		100		1.1	
SV-331	18	05-09-23	C	0 140110247				X					5	84.5			
BD1/20230905	19	05-09-23	S	3300	492	X			X		-30	-7		100		0	
BD1/20230905	20	05-09-23	C	0 171504399				X					5	84.5			
Shroud 1/20230905	21	05-09-23	C	0 140110203						X			1	84.5		225	
																	3541 Canister leak
																	do not test
PQL (S) mg/kg																ANZECC PQLs req'd for all water analytes	

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Total number of samples in container: 21 **Relinquished by:** PJ **Transported to laboratory by:** PJ

Send Results to: Douglas Partners Pty Ltd **Address:**

Signed: Patrick Johansson, 5/9/23, 4 pm **Received by:**

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 332246

Date Received: 5/9/23

Time Received: 16:00

~~Received By:~~

~~Temp: Cool/Ambient~~

Cooling: Ice/Icepack

Security: Intact/Broken/None

Lab Report/Reference No:

Phone: **Fax:**

Date & Time:

Envirolab Services Pty Ltd
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CERTIFICATE OF ANALYSIS 334106

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01**
Number of Samples	5 Air
Date samples received	27/09/2023
Date completed instructions received	27/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	04/10/2023
Date of Issue	04/10/2023

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Results Approved By
Amanda Chui, Air Toxics Team Leader
Liam Timmins, Organics Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

TO15 in Canisters/Bags			
Our Reference		334106-1	334106-3
Your Reference	UNITS	SV-332	SV-333
Date Sampled		26/09/2023	26/09/2023
Type of sample		Air	Air
Air Kit Security No.		3648	3511
Vacuum before Shipment	Hg"	-30	-30
Vacuum before Analysis	Hg"	-6	-6
Date prepared	-	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023
Propylene	ppbv	<0.5	<0.5
Dichlorodifluoromethane	ppbv	<0.5	<0.5
Chloromethane	ppbv	<0.5	<0.5
1,2-Dichlorotetrafluoroethane	ppbv	<0.5	<0.5
Vinyl chloride	ppbv	<0.5	<0.5
1,3-Butadiene	ppbv	<0.5	<0.5
Bromomethane	ppbv	<0.5	<0.5
Chloroethane	ppbv	<0.5	<0.5
Ethanol	ppbv	30	40
Acrolein	ppbv	<5	<5
Trichlorofluoromethane (Freon 11)	ppbv	6.6	2
Acetone	ppbv	<5	<5
Isopropyl Alcohol	ppbv	8	9
1,1-Dichloroethene	ppbv	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	ppbv	<0.5	<0.5
Methylene chloride (Dichloromethane)	ppbv	<5	<5
Carbon Disulfide	ppbv	<5	<5
trans-1,2-dichloroethene	ppbv	<0.5	<0.5
MTBE	ppbv	<0.5	<0.5
1,1- Dichloroethane	ppbv	<0.5	<0.5
Vinyl Acetate	ppbv	<0.5	<0.5
MEK	ppbv	<5	<5
Hexane	ppbv	1	130
cis-1,2-Dichloroethene	ppbv	<0.5	0.6
Ethyl Acetate	ppbv	<0.5	<0.5
Chloroform	ppbv	1	<0.5
Tetrahydrofuran	ppbv	<0.5	<0.5
1,1,1-Trichloroethane	ppbv	<0.5	<0.5
1,2-Dichloroethane	ppbv	<0.5	<0.5
Benzene	ppbv	<0.5	3
Carbon tetrachloride	ppbv	<0.5	<0.5

TO15 in Canisters/Bags			
Our Reference		334106-1	334106-3
Your Reference	UNITS	SV-332	SV-333
Date Sampled		26/09/2023	26/09/2023
Type of sample		Air	Air
Air Kit Security No.		3648	3511
Cyclohexane	ppbv	3	200
Heptane	ppbv	5.6	250
Trichloroethene	ppbv	<0.5	<0.5
1,2-Dichloropropane	ppbv	<0.5	<0.5
1,4-Dioxane	ppbv	<0.5	<0.5
Bromodichloromethane	ppbv	<0.5	<0.5
Methyl Methacrylate	ppbv	<0.5	<0.5
MIBK	ppbv	<5	<5
cis-1,3-Dichloropropene	ppbv	<0.5	<0.5
trans-1,3-Dichloropropene	ppbv	<0.5	<0.5
Toluene	ppbv	35	180
1,1,2-Trichloroethane	ppbv	<0.5	<0.5
Methyl Butyl Ketone	ppbv	<0.5	<0.5
Dibromochloromethane	ppbv	<0.5	<0.5
Tetrachloroethene	ppbv	1	<0.5
1,2-Dibromoethane	ppbv	<0.5	<0.5
Chlorobenzene	ppbv	<0.5	<0.5
Ethylbenzene	ppbv	53	130
m-& p-Xylene	ppbv	62	130
Styrene	ppbv	18	19
o-Xylene	ppbv	39	67
Bromoform	ppbv	<0.5	<0.5
1,1,2,2-Tetrachloroethane	ppbv	<0.5	<0.5
4-ethyl toluene	ppbv	5	4
1,3,5-Trimethylbenzene	ppbv	5.5	5.2
1,2,4-Trimethylbenzene	ppbv	5	4
1,3-Dichlorobenzene	ppbv	<0.5	<0.5
Benzyl chloride	ppbv	<0.5	<0.5
1,4-Dichlorobenzene	ppbv	<0.5	<0.5
1,2-Dichlorobenzene	ppbv	<0.5	<0.5
1,2,4-Trichlorobenzene	ppbv	<0.5	<0.5
Naphthalene	ppbv	<0.5	<0.5
Hexachloro- 1,3-butadiene	ppbv	<0.5	<0.5
Surrogate-Bromochloromethane	% rec	107	112
Surrogate -1,4-Difluorobenzene	% rec	102	104
Surrogate-Chlorobenzene-D5	% rec	95	92

TO15 in Canisters µg/m3			
Our Reference		334106-1	334106-3
Your Reference	UNITS	SV-332	SV-333
Date Sampled		26/09/2023	26/09/2023
Type of sample		Air	Air
Air Kit Security No.		3648	3511
Vacuum before Shipment	Hg"	-30	-30
Vacuum before Analysis	Hg"	-6	-6
Date prepared	-	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023
Propylene	µg/m³	<0.9	<0.9
Dichlorodifluoromethane	µg/m³	<2.5	<2.5
Chloromethane	µg/m³	<1	<1.0
1,2-Dichlorotetrafluoroethane	µg/m³	<2.5	<2.5
Vinyl chloride	µg/m³	<1.3	<1.3
1,3-Butadiene	µg/m³	<1.1	<1.1
Bromomethane	µg/m³	<1.9	<1.9
Chloroethane	µg/m³	<1.3	<1.3
Ethanol	µg/m³	60	80
Acrolein	µg/m³	<11	<11
Trichlorofluoromethane (Freon 11)	µg/m³	37	10
Acetone	µg/m³	<11.9	<11.9
Isopropyl Alcohol	µg/m³	20	20
1,1-Dichloroethene	µg/m³	<2	<2.0
1,1,2-Trichlorotrifluoroethane	µg/m³	<3.8	<3.8
Methylene chloride (Dichloromethane)	µg/m³	<17	<17
Carbon Disulfide	µg/m³	<16	<16
trans-1,2-dichloroethene	µg/m³	<2	<2
MTBE	µg/m³	<1.8	<1.8
1,1- Dichloroethane	µg/m³	<2	<2.0
Vinyl Acetate	µg/m³	<1.8	<1.8
MEK	µg/m³	<15	<15
Hexane	µg/m³	4	470
cis-1,2-Dichloroethene	µg/m³	<2	2
Ethyl Acetate	µg/m³	<1.8	<1.8
Chloroform	µg/m³	5	<2.4
Tetrahydrofuran	µg/m³	<1.5	<1.5
1,1,1-Trichloroethane	µg/m³	<2.7	<2.7
1,2-Dichloroethane	µg/m³	<2	<2
Benzene	µg/m³	<1.6	10
Carbon tetrachloride	µg/m³	<3.1	<3.1

TO15 in Canisters µg/m3			
Our Reference		334106-1	334106-3
Your Reference	UNITS	SV-332	SV-333
Date Sampled		26/09/2023	26/09/2023
Type of sample		Air	Air
Air Kit Security No.		3648	3511
Cyclohexane	µg/m³	10	700
Heptane	µg/m³	23	1,000
Trichloroethene	µg/m³	<2.7	<2.7
1,2-Dichloropropane	µg/m³	<2.3	<2.3
1,4-Dioxane	µg/m³	<1.8	<1.8
Bromodichloromethane	µg/m³	<3.4	<3.4
Methyl Methacrylate	µg/m³	<2	<2
MIBK	µg/m³	<20	<20
cis-1,3-Dichloropropene	µg/m³	<2.3	<2.3
trans-1,3-Dichloropropene	µg/m³	<2.3	<2.3
Toluene	µg/m³	130	680
1,1,2-Trichloroethane	µg/m³	<2.7	<2.7
Methyl Butyl Ketone	µg/m³	<2	<2
Dibromochloromethane	µg/m³	<1.6	<1.6
Tetrachloroethene	µg/m³	7	<3.4
1,2-Dibromoethane	µg/m³	<3.8	<3.8
Chlorobenzene	µg/m³	<2.3	<2.3
Ethylbenzene	µg/m³	230	550
m-& p-Xylene	µg/m³	270	550
Styrene	µg/m³	76	79
o-Xylene	µg/m³	170	290
Bromoform	µg/m³	<5.2	<5.2
1,1,2,2-Tetrachloroethane	µg/m³	<3.4	<3.4
4-ethyl toluene	µg/m³	20	20
1,3,5-Trimethylbenzene	µg/m³	27	26
1,2,4-Trimethylbenzene	µg/m³	20	20
1,3-Dichlorobenzene	µg/m³	<3	<3
Benzyl chloride	µg/m³	<2.6	<2.6
1,4-Dichlorobenzene	µg/m³	<3	<3
1,2-Dichlorobenzene	µg/m³	<3	<3
1,2,4-Trichlorobenzene	µg/m³	<3.7	<3.7
Naphthalene	µg/m³	<2.6	<2.6
Hexachloro- 1,3-butadiene	µg/m³	<5.3	<5.3
Surrogate-Bromochloromethane	% rec	107	112
Surrogate -1,4-Difluorobenzene	% rec	102	104
Surrogate-Chlorobenzene-D5	% rec	95	92

TPH Air/ Air Phase Hydrocarbon			
Our Reference		334106-1	334106-3
Your Reference	UNITS	SV-332	SV-333
Date Sampled		26/09/2023	26/09/2023
Type of sample		Air	Air
Air Kit Security No.		3648	3511
Date prepared	-	27/09/2023	27/09/2023
Date analysed	-	27/09/2023	27/09/2023
TPH C_5 - C_8 Aliphatic	µg/m^3	5,800	100,000
TPH C_9 - C_{12} Aliphatic	µg/m^3	5,000	21,000
TPH C_9 - C_{10} Aromatic	µg/m^3	210	180
TPH C_6 - C_{10} - BTEX (F1)	µg/m^3	16,000	150,000
TPH >C_{10} - C_{12} - Naphthalene (F2)	µg/m^3	2,000	6,900

IPA in Carbon Tubes & Badges		
Our Reference		334106-5
Your Reference	UNITS	Shroud 1/20230926
Date Sampled		26/09/2023
Type of sample		Air
Air Kit Security No.		0171504398
Date Extracted	-	03/10/2023
Date Analysed	-	04/10/2023
Tube Sampling rate	mL/min	84
Tube Sampling Time	mins	1.0
Volume sampled	m^3	0.000084
Isopropyl Alcohol*	µg	310
Isopropyl Alcohol*	µg/m^3	3,714,285.7
Surrogate Toluene-d8	%	130
Surrogate 4-Bromofluorobenzene	%	88

Method ID	Methodology Summary
AT-005	Measurement of Air-Phase Petroleum Hydrocarbons and Ozone Precursors by GC-MS.
ORG-022	Determination of volatile organic compounds in charcoal tubes/badges/sorbents using CS2 extraction, determined by GC/GC-MS. Desorption efficiencies are not applied to results. Note where µg/m$^{3 \text{ or } mg/m3}$ results are supplied for SKC badges, the factors used are for 575-002, if 575-002 data is unavailable for an analyte then use 575-001 then 575-003 (exposure time must be supplied). Otherwise a sampling rate may be used for a similar analyte on request. Analytes such as (where applicable) Iodomethane, Chloroprene, Nitrobenzene, Naphthalene and 1, 2, 3 / 1, 2, 4 Trichlorobenzenes are considered to be semi-quant analyses using CS2 desorption from charcoal tubes. The latter three compounds are better served by XAD-2 collection and analysis. Note - air volume measurements are not covered by Envirolab's NATA accreditation.
TO15	USEPA TO15 - Analysis of VOC's in air using USEPA TO15 and in house method AT-002. Note, longer term stability of some oxygenated compounds is questionable where significant humidity is present.
USEPA 18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography using USEPA m18.

QUALITY CONTROL: TO15 in Canisters/Bags					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-6	-6	0	[NT]	[NT]
Date prepared	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	[NT]
Date analysed	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	[NT]
Propylene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	117	[NT]
Dichlorodifluoromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Vinyl chloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,3-Butadiene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bromomethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethanol	ppbv	5	TO15	<5	1	30	30	0	[NT]	[NT]
Acrolein	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	ppbv	0.5	TO15	<0.5	1	6.6	6.4	3	[NT]	[NT]
Acetone	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Isopropyl Alcohol	ppbv	5	TO15	<5	1	8	8	0	[NT]	[NT]
1,1-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Carbon Disulfide	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
trans-1,2-dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MTBE	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1- Dichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Vinyl Acetate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MEK	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
Hexane	ppbv	0.5	TO15	<0.5	1	1	1	0	98	[NT]
cis-1,2-Dichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethyl Acetate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chloroform	ppbv	0.5	TO15	<0.5	1	1	1	0	[NT]	[NT]
Tetrahydrofuran	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,1-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Benzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	97	[NT]
Carbon tetrachloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Cyclohexane	ppbv	0.5	TO15	<0.5	1	3	3	0	99	[NT]
Heptane	ppbv	0.5	TO15	<0.5	1	5.6	5.6	0	101	[NT]

QUALITY CONTROL: TO15 in Canisters/Bags						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Trichloroethene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichloropropane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-Dioxane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Bromodichloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methyl Methacrylate	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
MIBK	ppbv	5	TO15	<5	1	<5	<5	0	[NT]	[NT]
cis-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
trans-1,3-Dichloropropene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Toluene	ppbv	0.5	TO15	<0.5	1	35	34	3	100	[NT]
1,1,2-Trichloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Methyl Butyl Ketone	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Dibromochloromethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	ppbv	0.5	TO15	<0.5	1	1	1	0	[NT]	[NT]
1,2-Dibromoethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Chlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	ppbv	0.5	TO15	<0.5	1	53	53	0	102	[NT]
m-& p-Xylene	ppbv	1	TO15	<1	1	62	62	0	102	[NT]
Styrene	ppbv	0.5	TO15	<0.5	1	18	17	6	99	[NT]
o-Xylene	ppbv	0.5	TO15	<0.5	1	39	38	3	101	[NT]
Bromoform	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
4-ethyl toluene	ppbv	0.5	TO15	<0.5	1	5	5	0	104	[NT]
1,3,5-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	5.5	5.3	4	104	[NT]
1,2,4-Trimethylbenzene	ppbv	0.5	TO15	<0.5	1	5	5	0	107	[NT]
1,3-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Benzyl chloride	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,4-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2-Dichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
1,2,4-Trichlorobenzene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Naphthalene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	ppbv	0.5	TO15	<0.5	1	<0.5	<0.5	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	109	1	107	112	5	101	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	105	1	102	107	5	98	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	104	1	95	100	5	99	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Vacuum before Shipment	Hg"			[NT]	1	-30	-30	0	[NT]	[NT]
Vacuum before Analysis	Hg"			[NT]	1	-6	-6	0	[NT]	[NT]
Date prepared	-			27/09/2023	1	27/09/2023	27/09/2023		[NT]	[NT]
Date analysed	-			27/09/2023	1	27/09/2023	27/09/2023		[NT]	[NT]
Propylene	µg/m³	0.9	TO15	<0.9	1	<0.9	<0.9	0	[NT]	[NT]
Dichlorodifluoromethane	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
Chloromethane	µg/m³	1.0	TO15	<1.0	1	<1	<1	0	[NT]	[NT]
1,2-Dichlorotetrafluoroethane	µg/m³	2.5	TO15	<2.5	1	<2.5	<2.5	0	[NT]	[NT]
Vinyl chloride	µg/m³	1.3	TO15	<1.3	1	<1.3	<1.3	0	[NT]	[NT]
1,3-Butadiene	µg/m³	1.1	TO15	<1.1	1	<1.1	<1.1	0	[NT]	[NT]
Bromomethane	µg/m³	1.9	TO15	<1.9	1	<1.9	<1.9	0	[NT]	[NT]
Chloroethane	µg/m³	1.3	TO15	<1.3	1	<1.3	<1.3	0	[NT]	[NT]
Ethanol	µg/m³	9	TO15	<9	1	60	60	0	[NT]	[NT]
Acrolein	µg/m³	11	TO15	<11	1	<11	<11	0	[NT]	[NT]
Trichlorofluoromethane (Freon 11)	µg/m³	2.8	TO15	<2.8	1	37	36	3	[NT]	[NT]
Acetone	µg/m³	11.9	TO15	<11.9	1	<11.9	<11.9	0	[NT]	[NT]
Isopropyl Alcohol	µg/m³	12	TO15	<12	1	20	20	0	[NT]	[NT]
1,1-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
1,1,2-Trichlorotrifluoroethane	µg/m³	3.8	TO15	<3.8	1	<3.8	<3.8	0	[NT]	[NT]
Methylene chloride (Dichloromethane)	µg/m³	17	USEPA 18	<17	1	<17	<17	0	[NT]	[NT]
Carbon Disulfide	µg/m³	16	TO15	<16	1	<16	<16	0	[NT]	[NT]
trans-1,2-dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
MTBE	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
1,1- Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Vinyl Acetate	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
MEK	µg/m³	15	TO15	<15	1	<15	<15	0	[NT]	[NT]
Hexane	µg/m³	1.8	TO15	<1.8	1	4	4	0	[NT]	[NT]
cis-1,2-Dichloroethene	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Ethyl Acetate	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
Chloroform	µg/m³	2.4	TO15	<2.4	1	5	5	0	[NT]	[NT]
Tetrahydrofuran	µg/m³	1.5	TO15	<1.5	1	<1.5	<1.5	0	[NT]	[NT]
1,1,1-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
1,2-Dichloroethane	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Benzene	µg/m³	1.6	TO15	<1.6	1	<1.6	<1.6	0	[NT]	[NT]
Carbon tetrachloride	µg/m³	3.1	TO15	<3.1	1	<3.1	<3.1	0	[NT]	[NT]
Cyclohexane	µg/m³	1.7	TO15	<1.7	1	10	10	0	[NT]	[NT]
Heptane	µg/m³	2.0	TO15	<2.0	1	23	23	0	[NT]	[NT]

QUALITY CONTROL: TO15 in Canisters µg/m3						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Trichloroethene	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
1,2-Dichloropropane	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
1,4-Dioxane	µg/m³	1.8	TO15	<1.8	1	<1.8	<1.8	0	[NT]	[NT]
Bromodichloromethane	µg/m³	3.4	TO15	<3.4	1	<3.4	<3.4	0	[NT]	[NT]
Methyl Methacrylate	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
MIBK	µg/m³	20	TO15	<20	1	<20	<20	0	[NT]	[NT]
cis-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
trans-1,3-Dichloropropene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
Toluene	µg/m³	1.9	TO15	<1.9	1	130	130	0	[NT]	[NT]
1,1,2-Trichloroethane	µg/m³	2.7	TO15	<2.7	1	<2.7	<2.7	0	[NT]	[NT]
Methyl Butyl Ketone	µg/m³	2.0	TO15	<2.0	1	<2	<2	0	[NT]	[NT]
Dibromochloromethane	µg/m³	1.6	TO15	<1.6	1	<1.6	<1.6	0	[NT]	[NT]
Tetrachloroethene	µg/m³	3.4	TO15	<3.4	1	7	7	0	[NT]	[NT]
1,2-Dibromoethane	µg/m³	3.8	TO15	<3.8	1	<3.8	<3.8	0	[NT]	[NT]
Chlorobenzene	µg/m³	2.3	TO15	<2.3	1	<2.3	<2.3	0	[NT]	[NT]
Ethylbenzene	µg/m³	2.2	TO15	<2.2	1	230	230	0	[NT]	[NT]
m-& p-Xylene	µg/m³	4.3	TO15	<4.3	1	270	270	0	[NT]	[NT]
Styrene	µg/m³	2.1	TO15	<2.1	1	76	74	3	[NT]	[NT]
o-Xylene	µg/m³	2.2	TO15	<2.2	1	170	170	0	[NT]	[NT]
Bromoform	µg/m³	5.2	TO15	<5.2	1	<5.2	<5.2	0	[NT]	[NT]
1,1,2,2-Tetrachloroethane	µg/m³	3.4	TO15	<3.4	1	<3.4	<3.4	0	[NT]	[NT]
4-ethyl toluene	µg/m³	2.5	TO15	<2.5	1	20	20	0	[NT]	[NT]
1,3,5-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	27	26	4	[NT]	[NT]
1,2,4-Trimethylbenzene	µg/m³	2.5	TO15	<2.5	1	20	20	0	[NT]	[NT]
1,3-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
Benzyl chloride	µg/m³	2.6	TO15	<2.6	1	<2.6	<2.6	0	[NT]	[NT]
1,4-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
1,2-Dichlorobenzene	µg/m³	3.0	TO15	<3.0	1	<3	<3	0	[NT]	[NT]
1,2,4-Trichlorobenzene	µg/m³	3.7	TO15	<3.7	1	<3.7	<3.7	0	[NT]	[NT]
Naphthalene	µg/m³	2.6	TO15	<2.6	1	<2.6	<2.6	0	[NT]	[NT]
Hexachloro- 1,3-butadiene	µg/m³	5.3	TO15	<5.3	1	<5.3	<5.3	0	[NT]	[NT]
Surrogate-Bromochloromethane	% rec		TO15	109	1	107	112	5	[NT]	[NT]
Surrogate -1,4-Difluorobenzene	% rec		TO15	105	1	102	107	5	[NT]	[NT]
Surrogate-Chlorobenzene-D5	% rec		TO15	104	1	95	100	5	[NT]	[NT]

QUALITY CONTROL: TPH Air/ Air Phase Hydrocarbon						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	[NT]
Date analysed	-			27/09/2023	1	27/09/2023	27/09/2023		27/09/2023	[NT]
TPH C_5 - C_8 Aliphatic	µg/m^3	200	AT-005	<200	1	5800	5800	0	99	[NT]
TPH C_9 - C_{12} Aliphatic	µg/m^3	50	AT-005	<50	1	5000	5200	4	[NT]	[NT]
TPH C_9 - C_{10} Aromatic	µg/m^3	100	AT-005	<100	1	210	200	5	102	[NT]
TPH C_6 - C_{10} - BTEX (F1)	µg/m^3	200	TO15	<200	1	16000	16000	0	100	[NT]
TPH >C_{10} - C_{12} - Naphthalene (F2)	µg/m^3	40	TO15	<40	1	2000	2100	5	97	[NT]

QUALITY CONTROL: IPA in Carbon Tubes & Badges						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date Extracted	-			03/10/2023	[NT]	[NT]	[NT]	[NT]	03/10/2023	[NT]
Date Analysed	-			04/10/2023	[NT]	[NT]	[NT]	[NT]	04/10/2023	[NT]
Isopropyl Alcohol*	µg	5	ORG-022	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate Toluene-d8	%		ORG-022	122	[NT]	[NT]	[NT]	[NT]	120	[NT]
Surrogate 4-Bromofluorobenzene	%		ORG-022	97	[NT]	[NT]	[NT]	[NT]	108	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01
Envirolab Reference	334106
Date Sample Received	27/09/2023
Date Instructions Received	27/09/2023
Date Results Expected to be Reported	04/10/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Air
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	n/a
Cooling Method	Not applicable
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
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Sample ID	TO15 in Canisters/Bags	TO15 in Canisters µg/m3	TPH Air/ Air Phase Hydrocarbon	IPA in Carbon Tubes & Badges	On Hold
SV-332	✓	✓	✓		
SV-332					✓
SV-333	✓	✓	✓		
SV-333					✓
Shroud 1/20230926				✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Name:	Contamination Investigation	**Order Number**	ELS Quote No. 23SY225		12 Ashley Street Chatswood
Project Manager	David Holden	**Sampler:**	PJ	**Attn:**	Daniel Ford
Emails:	david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au				
Date Required:	Std				
Prior Storage:	shelf	Do samples contain 'potential' HBM?	Yes ☐ No ☐ (If YES, then handle, transport and store in accordance with FPM HAZID)		

Sample ID	Lab ID	Date Sampled	Sample Type	Serial No.s		Analytes					Sample Details						Comments / Weather
			S - suma cainister C - Carbon tube	Canister / Tube ID	Regulator ID	TO15	TO17	Hold	TPH	IPA	Start Vacuum	Stop Vaccum	Sample Duration	Flow Rate		PID	
SV-332	1	26/09/23	S	3648	492	X			X		-29	-7		100		10.4	
SV-332	2	26/09/23	C	8744014878				X					5	84.5			
SV-333	3	26/09/23	S	3511	1982	X			X		-29	-7		100		25.7	
SV-333	4	26/09/23	C	0 140110435				X					5	84.5			
Shroud 1/20230926	5	26/09/23	C	0 171504398						X			1	84.5		310	
PQL (S) mg/kg																	

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Lab Report/Reference No:

Metals to Analyse: 8HM unless specified here:

Total number of samples in container: 5 **Relinquished by:** PJ **Transported to laboratory by:** Courier

Send Results to: Douglas Partners Pty Ltd **Address:** 96 Hermitage Road, West Ryde NSW 2114 **Phone:** 9809 0666 **Fax:**

Signed: Patrick Johansson, 27/09/2023 **Received by:** **Date & Time:** Envirolab 27/09/2023

ENVIROLAB
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 334106

Date Received: 27/9/23
Time Received: 15:00
Received By: DF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Appendix K4

Acid Sulphate Soil

Envirolab Services Pty Ltd
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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 330942

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	44 Soil
Date samples received	18/08/2023
Date completed instructions received	18/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	25/08/2023
Date of Issue	25/08/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

sPOCAS field test						
Our Reference		330942-1	330942-2	330942-3	330942-4	330942-5
Your Reference	UNITS	302	302	302	302	302
Depth		2.3-2.5	2.8-3	3.8-4	4.8-5	5.8-6
Date Sampled		17/08/23	17/08/23	17/08/23	17/08/23	17/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	4.8	4.6	4.9	5.9	5.6
pH_{FOX} (field peroxide test)	pH Units	3.9	3.9	4.4	5.1	4.9
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		330942-6	330942-7	330942-8	330942-9	330942-10
Your Reference	UNITS	302	302	302	302	302
Depth		6.8-7	7.8-8	8.8-9	9.8-10	10.8-11
Date Sampled		17/08/23	17/08/23	17/08/23	17/08/23	17/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	6.2	6.0	6.1	6.1	5.3
pH_{FOX} (field peroxide test)	pH Units	4.7	4.3	4.4	3.6	2.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	High reaction

sPOCAS field test						
Our Reference		330942-11	330942-12	330942-13	330942-14	330942-15
Your Reference	UNITS	302	311	311	311	311
Depth		11.5-11.6	3.4-3.6	4.4-4.6	5.4-5.6	6.4-6.6
Date Sampled		17/08/23	10/08/23	10/08/23	10/08/23	10/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	5.1	6.4	6.7	7.0	7.8
pH_{FOX} (field peroxide test)	pH Units	2.5	4.3	4.5	4.8	5.3
Reaction Rate*	-	High reaction	Medium reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		330942-16	330942-17	330942-18	330942-19	330942-20
Your Reference	UNITS	311	311	311	318	318
Depth		7.4-7.6	8.4-8.6	9.4-9.6	1.5-1.7	2-2.2
Date Sampled		10/08/23	10/08/23	10/08/23	15/08/23	15/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	6.6	6.5	6.2	4.7	4.9
pH_{FOX} (field peroxide test)	pH Units	4.0	3.9	2.7	3.5	3.9
Reaction Rate*	-	Medium reaction	Medium reaction	High reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		330942-21	330942-22	330942-23	330942-24	330942-25
Your Reference	UNITS	318	318	318	318	318
Depth		2.5-2.7	3.5-3.7	4.5-4.7	4.8-5	5.8-6
Date Sampled		15/08/23	15/08/23	15/08/23	15/08/23	15/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	5.0	5.7	6.3	6.4	6.7
pH_{FOX} (field peroxide test)	pH Units	4.1	4.6	5.1	5.4	5.2
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		330942-26	330942-27	330942-28	330942-29	330942-30
Your Reference	UNITS	318	318	319	319	319
Depth		6.8-7	7.8-8	0.5-0.7	1.1-1.3	1.4-1.6
Date Sampled		15/08/23	15/08/23	10/08/23	10/08/23	10/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	6.1	6.0	7.7	7.2	7.1
pH_{FOX} (field peroxide test)	pH Units	2.6	3.2	5.2	5.1	5.0
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		330942-31	330942-32	330942-33	330942-34	330942-35
Your Reference	UNITS	319	319	319	319	319
Depth		1.9-2.1	2.8-3	3.8-4	4.8-5	5.8-6
Date Sampled		10/08/23	10/08/23	10/08/23	10/08/23	10/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	7.0	7.1	7.0	7.0	6.5
pH_{FOX} (field peroxide test)	pH Units	5.3	5.6	5.3	5.4	5.5
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		330942-36	330942-37	330942-38	330942-39	330942-40
Your Reference	UNITS	319	319	329C	329C	329C
Depth		6.8-7	7.8-8	4.1-4.3	4.6-4.8	5.1-5.3
Date Sampled		10/08/23	10/08/23	15/08/23	15/08/23	15/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	6.6	6.4	6.6	6.7	7.8
pH_{FOX} (field peroxide test)	pH Units	3.3	3.2	3.4	3.8	5.7
Reaction Rate*	-	High reaction	High reaction	Medium reaction	High reaction	High reaction

sPOCAS field test					
Our Reference		330942-41	330942-42	330942-43	330942-44
Your Reference	UNITS	329C	329C	329C	329C
Depth		5.6-5.8	6.4-6.6	6.8-7	7.8-8
Date Sampled		15/08/23	15/08/23	15/08/23	15/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023
Date analysed	-	22/08/2023	22/08/2023	22/08/2023	22/08/2023
pH_F (field pH test)	pH Units	7.5	7.3	6.9	6.8
pH_{FOX} (field peroxide test)	pH Units	4.3	4.5	3.2	4.2
Reaction Rate*	-	High reaction	High reaction	High reaction	Low reaction

Method ID	Methodology Summary
Inorg-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions.

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			22/08/2023	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date analysed	-			22/08/2023	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	22/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	330942
Date Sample Received	18/08/2023
Date Instructions Received	18/08/2023
Date Results Expected to be Reported	25/08/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	44 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	sPOCAS field test
302-2.3-2.5	✓
302-2.8-3	✓
302-3.8-4	✓
302-4.8-5	✓
302-5.8-6	✓
302-6.8-7	✓
302-7.8-8	✓
302-8.8-9	✓
302-9.8-10	✓
302-10.8-11	✓
302-11.5-11.6	✓
311-3.4-3.6	✓
311-4.4-4.6	✓
311-5.4-5.6	✓
311-6.4-6.6	✓
311-7.4-7.6	✓
311-8.4-8.6	✓
311-9.4-9.6	✓
318-1.5-1.7	✓
318-2-2.2	✓
318-2.5-2.7	✓
318-3.5-3.7	✓
318-4.5-4.7	✓
318-4.8-5	✓
318-5.8-6	✓
318-6.8-7	✓
318-7.8-8	✓
319-0.5-0.7	✓
319-1.1-1.3	✓
319-1.4-1.6	✓
319-1.9-2.1	✓
319-2.8-3	✓

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customerservice@envirolab.com.au
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Sample ID	sPOCAS field test
319-3.8-4	✓
319-4.8-5	✓
319-5.8-6	✓
319-6.8-7	✓
319-7.8-8	✓
329C-4.1-4.3	✓
329C-4.6-4.8	✓
329C-5.1-5.3	✓
329C-5.6-5.8	✓
329C-6.4-6.6	✓
329C-6.8-7	✓
329C-7.8-8	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				12 Ashley St, Chatswood NSW 2067
Prior Storage:	☐ Fridge ☑ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes (If YES, then handle, transport and store in accordance with FPM HAZID)		(02) 9910 6200 samplereceipt@envirolab.com.au

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen										Notes/ Preservation/ Additional Requirements
1	302	2.3	2.5	17/08/23	S	B	x										
2	302	2.8	3	17/08/23	S	B	x										
3	302	3.8	4	17/08/23	S	B	x										
4	302	4.8	5	17/08/23	S	B	x										
5	302	5.8	6	17/08/23	S	B	x										
6	302	6.8	7	17/08/23	S	B	x										
7	302	7.8	8	17/08/23	S	B	x										
8	302	8.8	9	17/08/23	S	B	x										
9	302	9.8	10	17/08/23	S	B	x										
10	302	10.8	11	17/08/23	S	B	x										
11	302	11.5	11.6	17/08/23	S	B	x										
12	311	3.4	3.6	10/08/23	S	B	x										
13	311	4.4	4.6	10/08/23	S	B	x										
14	311	5.4	5.6	10/08/23	S	B	x										

ENVIROLAB group
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 330942
Date Received: 18/8/23
Time Received: 1545
Received By: Stephanie
Temp: Cool/Ambient 3°C
Cooling: Ice/icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666
Relinquished by:	Nathan Woodward, 2:30 pm, 18/8/23	**Date:**	18/08/2023 **Signed:**

LAB RECEIPT

Lab Ref. No:	330942
Received by:	Stephanie
Date & Time:	18/8/23, 1545
Signed:	

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 18/08/2023	

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen											
15	311	6.4	6.6	10/08/23	S	B	x											
16	311	7.4	7.6	10/08/23	S	B	x											
17	311	8.4	8.6	10/08/23	S	B	x											
18	311	9.4	9.6	10/08/23	S	B	x											
19	318	1.5	1.7	15/08/23	S	B	x											
20	318	2	2.2	15/08/23	S	B	x											
21	318	2.5	2.7	15/08/23	S	B	x											
22	318	3.5	3.7	15/08/23	S	B	x											
23	318	4.5	4.7	15/08/23	S	B	x											
24	318	4.8	5	15/08/23	S	B	x											
25	318	5.8	6	15/08/23	S	B	x											
26	318	6.8	7	15/08/23	S	B	x											
27	318	7.8	8	15/08/23	S	B	x											
28	319	0.5	0.7	10/08/23	S	B	x											#330942 18/08/23 SG
29	319	1.1	1.3	10/08/23	S	B	x											
30	319	1.4	1.6	10/08/23	S	B	x											
31	319	1.9	2.1	10/08/23	S	B	x											
32	319	2.8	3	10/08/23	S	B	x											

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:**	18/08/2023

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen											
33	319	3.8	4	10/08/23	S	B	x											
34	319	4.8	5	10/08/23	S	B	x											
35	319	5.8	6	10/08/23	S	B	x											
36	319	6.8	7	10/08/23	S	B	x											
37	319	7.8	8	10/08/23	S	B	x											
38	329C	4.1	4.3	15/08/23	S	B	x											
39	329C	4.6	4.8	15/08/23	S	B	x											
40	329C	5.1	5.3	15/08/23	S	B	x											
41	329C	5.6	5.8	15/08/23	S	B	x											
42	329C	6.4	6.6	15/08/23	S	B	x											
43	329C	6.8	7	15/08/23	S	B	x											
44	329C	7.8	8	15/08/23	S	B	x											
																		# 330942 18/8/23 SG

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CERTIFICATE OF ANALYSIS 330942-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	Additional analysis
Date samples received	18/08/2023
Date completed instructions received	15/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	22/11/2023
Date of Issue	22/11/2023

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Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

Chromium Suite						
Our Reference		330942-A-1	330942-A-2	330942-A-3	330942-A-7	330942-A-9
Your Reference	UNITS	302	302	302	302	302
Depth		2.3-2.5	2.8-3	3.8-4	7.8-8	9.8-10
Date Sampled		17/08/23	17/08/23	17/08/23	17/08/23	17/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/08/2023	18/08/2023	18/08/2023	18/08/2023	18/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.3	5.2	5.3	5.5	5.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	<0.005	0.02	<0.005	<0.005
a-Chromium Reducible Sulfur	moles H^+ /t	<3	<3	10	<3	<3
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	<0.005	0.016	<0.005	<0.005
a-Net Acidity	moles H^+ /t	<5	<5	10	<5	<5
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	0.8	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	<5	<5	10	<5	<5
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	0.75	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	<0.005	<0.005	0.016	<0.005	<0.005

Chromium Suite						
Our Reference		330942-A-10	330942-A-21	330942-A-22	330942-A-26	330942-A-30
Your Reference	UNITS	302	318	318	318	319
Depth		10.8-11	2.5-2.7	3.5-3.7	6.8-7	1.4-1.6
Date Sampled		17/08/23	15/08/23	15/08/23	15/08/23	10/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	18/08/2023	18/08/2023	18/08/2023	18/08/2023	18/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.5	5.4	5.6	5.3	6.0
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.006	<0.005	<0.005	0.01	0.007
a-Chromium Reducible Sulfur	moles H^+ /t	4	<3	<3	8	4
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.011	<0.005	<0.005	0.016	0.0070
a-Net Acidity	moles H^+ /t	6.8	<5	<5	10	<5
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	0.8	<0.75
a-Net Acidity without ANCE	moles H^+ /t	6.8	<5	<5	10	<5
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	0.77	<0.75
s-Net Acidity without ANCE	%w/w S	0.011	<0.005	<0.005	0.016	0.0070

Chromium Suite			
Our Reference		330942-A-41	330942-A-43
Your Reference	UNITS	329C	329C
Depth		5.6-5.8	6.8-7
Date Sampled		15/08/23	15/08/23
Type of sample		Soil	Soil
Date prepared	-	18/08/2023	18/08/2023
Date analysed	-	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	6.0	5.9
s-TAA pH 6.5	%w/w S	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	0.008
a-Chromium Reducible Sulfur	moles H^+ /t	<3	5
S_{HCl}	%w/w S	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	0.0080
a-Net Acidity	moles H^+ /t	<5	5.2
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	<5	5.2
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	<0.005	0.0080

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Net acidity including ANC has a safety factor of 1.5 applied. Neutralising value (NV) of 100% is assumed for liming rate. The recommendation that the SHCL concentration be multiplied by a factor of 2 to ensure retained acidity is not underestimated, has not been applied in the SHCL result. However, it has been applied in the SNAS calculation: SNAS % = (SHCL-SKCL)x2

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			18/08/2023	1	18/08/2023	18/08/2023		18/08/2023	[NT]
Date analysed	-			16/11/2023	1	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	1	5.3	5.3	0	98	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	1	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	97	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	1	<0.005	<0.005	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	<3	1	<3	<3	0	[NT]	[NT]
S_{HCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{KCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{NAS}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	<0.05	1	[NT]	[NT]		100	[NT]
s-ANC_{BT}	%w/w S	0.05	Inorg-068	<0.05	1	[NT]	[NT]		[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	<0.005	1	<0.005	<0.005	0	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	<0.005	1	<0.005	<0.005	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
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LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
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Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

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Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples received in good order: Holding time exceedance

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	330942-A
Date Sample Received	18/08/2023
Date Instructions Received	15/11/2023
Date Results Expected to be Reported	22/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Chromium Suite	On Hold
302-2.3-2.5	✓	
302-2.8-3	✓	
302-3.8-4	✓	
302-4.8-5		✓
302-5.8-6		✓
302-6.8-7		✓
302-7.8-8	✓	
302-8.8-9		✓
302-9.8-10	✓	
302-10.8-11	✓	
302-11.5-11.6	✓	
311-3.4-3.6	✓	
311-4.4-4.6		✓
311-5.4-5.6	✓	
311-6.4-6.6		✓
311-7.4-7.6	✓	
311-8.4-8.6		✓
311-9.4-9.6	✓	
318-1.5-1.7	✓	
318-2-2.2		✓
318-2.5-2.7		✓
318-3.5-3.7	✓	
318-4.5-4.7		✓
318-4.8-5		✓
318-5.8-6		✓
318-6.8-7	✓	
318-7.8-8		✓
319-0.5-0.7		✓
319-1.1-1.3		✓
319-1.4-1.6	✓	
319-1.9-2.1		✓
319-2.8-3		✓

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Sample ID	Chromium Suite	On Hold
319-3.8-4	✓	
319-4.8-5		✓
319-5.8-6		✓
319-6.8-7	✓	
319-7.8-8		✓
329C-4.1-4.3	✓	
329C-4.6-4.8		✓
329C-5.1-5.3		✓
329C-5.6-5.8		✓
329C-6.4-6.6		✓
329C-6.8-7	✓	
329C-7.8-8		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 331533

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	38 Soil
Date samples received	25/08/2023
Date completed instructions received	28/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	04/09/2023
Date of Issue	16/01/2024
Reissue Details	This report replaces R00 created on 04/09/2023 due to: extra information received

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Priya Samarawickrama, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

sPOCAS field test						
Our Reference		331533-1	331533-2	331533-3	331533-4	331533-5
Your Reference	UNITS	305	305	305	305	305
Depth		2-2.2	2.8-3	3.8-4	4.8-5	5.8-6
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	5.9	6.2	7.0	8.8	7.5
pH_{FOX} (field peroxide test)	pH Units	4.4	4.8	5.5	6.1	5.3
Reaction Rate*	-	High reaction	High reaction	High reaction	Extreme reaction	High reaction

sPOCAS field test						
Our Reference		331533-6	331533-7	331533-8	331533-9	331533-10
Your Reference	UNITS	305	308	308	312	312
Depth		6.8-7	9.8-10	10.8-11	4.8-5	5.8-6
Date Sampled		22/08/23	22/08/23	22/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	7.4	5.7	5.7	7.3	7.5
pH_{FOX} (field peroxide test)	pH Units	5.7	3.0	3.0	5.5	5.6
Reaction Rate*	-	High reaction	High reaction	High reaction	Medium reaction	Extreme reaction

sPOCAS field test						
Our Reference		331533-11	331533-12	331533-13	331533-14	331533-15
Your Reference	UNITS	312	312	312	312	312
Depth		6.8-7	7.8-8	8.8-9	9.8-10.1	10.8-11
Date Sampled		23/08/23	23/08/23	23/08/23	23/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	5.9	5.8	6.1	6.5	6.0
pH_{FOX} (field peroxide test)	pH Units	3.4	2.9	3.3	3.8	3.2
Reaction Rate*	-	High reaction	High reaction	Medium reaction	High reaction	High reaction

sPOCAS field test						
Our Reference		331533-16	331533-17	331533-18	331533-19	331533-20
Your Reference	UNITS	316	316	316	316	316
Depth		1.4-1.6	1.8-2	2.8-3	3.8-4	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	4.9	5.1	5.4	6.9	4.9
pH_{FOX} (field peroxide test)	pH Units	4.0	4.1	4.4	5.0	4.4
Reaction Rate*	-	Low reaction	Low reaction	Medium reaction	High reaction	Low reaction

sPOCAS field test						
Our Reference		331533-21	331533-22	331533-23	331533-24	331533-25
Your Reference	UNITS	316	316	316	316	316
Depth		5.8-6	6.8-7	7.8-7.8	8.8-9	9.8-10
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	6.4	6.0	5.8	5.4	5.8
pH_{FOX} (field peroxide test)	pH Units	5.2	3.3	3.0	3.2	2.7
Reaction Rate*	-	Low reaction	Low reaction	Medium reaction	Medium reaction	High reaction

sPOCAS field test						
Our Reference		331533-26	331533-27	331533-28	331533-29	331533-30
Your Reference	UNITS	327	327	327	327	327
Depth		1-1.2	1.8-2	2.8-3	3.8-4	4.8-5
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/2023	18/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	5.0	5.1	5.3	5.6	6.1
pH_{FOX} (field peroxide test)	pH Units	4.3	4.7	4.3	4.4	5.0
Reaction Rate*	-	Extreme reaction	Medium reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		331533-31	331533-32	331533-33	331533-34	331533-35
Your Reference	UNITS	327	327	327	327	328C
Depth		5.8-6	6.8-7	7.8-8	8.8-9	6.8-7
Date Sampled		18/08/23	18/08/23	18/08/23	18/08/23	24/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	7.1	6.9	6.4	6.2	7.0
pH_{FOX} (field peroxide test)	pH Units	5.6	3.9	3.4	3.5	2.9
Reaction Rate*	-	Medium reaction	Medium reaction	High reaction	Medium reaction	Medium reaction

sPOCAS field test				
Our Reference		331533-36	331533-37	331533-38
Your Reference	UNITS	328C	328B	328B
Depth		7.8-8	6.8-7	7.8-8
Date Sampled		24/08/23	24/08/23	24/08/23
Type of sample		Soil	Soil	Soil
Date prepared	-	29/08/2023	29/08/2023	29/08/2023
Date analysed	-	29/08/2023	29/08/2023	29/08/2023
pH_F (field pH test)	pH Units	7.1	6.7	6.8
pH_{FOX} (field peroxide test)	pH Units	3.5	3.7	3.6
Reaction Rate*	-	Medium reaction	High reaction	High reaction

Method ID	Methodology Summary
Inorg-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions.

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			29/08/2023	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
Date analysed	-			29/08/2023	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	29/08/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

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NA	Test not required
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PQL	Practical Quantitation Limit
<	Less than
>	Greater than
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LCS	Laboratory Control Sample
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LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
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For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

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In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	331533
Date Sample Received	25/08/2023
Date Instructions Received	28/08/2023
Date Results Expected to be Reported	04/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	38 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Received unlabelled bag - assumed to be 327/6.8-7 as is only missing sample

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	sPOCAS field test
305-2-2.2	✓
305-2.8-3	✓
305-3.8-4	✓
305-4.8-5	✓
305-5.8-6	✓
305-6.8-7	✓
308-9.8-10	✓
308-10.8-11	✓
312-4.8-5	✓
312-5.8-6	✓
312-6.8-7	✓
312-7.8-8	✓
312-8.8-9	✓
312-9.8-10.1	✓
312-10.8-11	✓
316-1.4-1.6	✓
316-1.8-2	✓
316-2.8-3	✓
316-3.8-4	✓
316-4.8-5	✓
316-5.8-6	✓
316-6.8-7	✓
316-7.8-7.8	✓
316-8.8-9	✓
316-9.8-10	✓
327-1-1.2	✓
327-1.8-2	✓
327-2.8-3	✓
327-3.8-4	✓
327-4.8-5	✓
327-5.8-6	✓
327-6.8-7	✓

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	sPOCAS field test
327-7.8-8	✓
327-8.8-9	✓
328C-6.8-7	✓
328C-7.8-8	✓
328B-6.8-7	✓
328B-7.8-8	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

COC : 28/08/23.

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Lab Quote No: 23SY225	**Sampler:**	PJ		12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☑ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen										Notes/ Preservation/ Additional Requirements
1	305	2	2.2	22-08-23	S	B	x										
2	305	2.8	3	22-08-23	S	B	x										
3	305	3.8	4	22-08-23	S	B	x										
4	305	4.8	5	22-08-23	S	B	x										
5	305	5.8	6	22-08-23	S	B	x										
6	305	6.8	7	22-08-23	S	B	x										
7	308	9.8	10	22-08-23	S	B	x										
8	308	10.8	11	22-08-23	S	B	x										
9	312	4.8	5	23-08-23	S	B	x										
10	312	5.8	6	23-08-23	S	B	x										
11	312	6.8	7	23-08-23	S	B	x										
12	312	7.8	8	23-08-23	S	B	x										
13	312	8.8	9	23-08-23	S	B	x										
14	312	9.8	10.1	23-08-23	S	B	x										

Envirolab Services
12 Ashley St, Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 331533
Date Received: 25/08/23
Time Received: 1380
Received By: CZ
Temp: Cool / Ambient
Cooling: Ice / Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 2114	**Phone:**	(02) 9809 0666
Relinquished by:	Nathan Woodward, 1:30 pm, 25/8/23	**Date:**	**Signed:**

LAB RECEIPT
Lab Ref. No: 331533
Received by: Grace
Date & Time: 25/08/23 1320
Signed:

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CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 25-08-23	

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen											Notes/ Preservation/ Additional Requirements
	312	6.8	7	23-08-23	S	B	x											
	312	7.8	8	23-08-23	S	B	x											
	312	8.8	9	23-08-23	S	B	x											
	312	9.8	10.1	23-08-23	S	B	x											
15	312	10.8	11	23-08-23	S	B	x											
16	316	1.4	1.6	22-08-23	S	B	x											
17	316	1.8	2	22-08-23	S	B	x											
18	316	2.8	3	22-08-23	S	B	x											
19	316	3.8	4	22-08-23	S	B	x											
20	316	4.8	5	22-08-23	S	B	x											
21	316	5.8	6	22-08-23	S	B	x											
22	316	6.8	7	22-08-23	S	B	x											
23	316	7.8	8	22-08-23	S	B	x											
24	316	8.8	9	22-08-23	S	B	x											
25	316	9.8	10	22-08-23	S	B	x											
26	327	1	1.2	18-08-23	S	B	x											
27	327	1.8	2	18-08-23	S	B	x											
28	327	2.8	3	18-08-23	S	B	x											

Dup. previous page

331533
25/08/23
GZ

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	25-08-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M - Material	G - glass P - plastic B - bag	ASS Screen											
29	327	3.8	4	18-08-23	S	B	x											
30	327	4.8	5	18-08-23	S	B	x											
31	327	5.8	6	18-08-23	S	B	x											
Assumed — 32	327	6.8	7	18-08-23	S	B	x											
33	327	7.8	8	18-08-23	S	B	x											
34	327	8.8	9	18-08-23	S	B	x											
35	328C	6.8	7	24-08-23	S	B	x											
36	328C	7.8	8	24-08-23	S	B	x											
37	328B	6.8	7	24-08-23	S	B	x											
38	328B	7.8	8	24-08-23	S	B	x											

331533.
25/08/23.
GZ

Envirolab Services Pty Ltd
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ph 02 9910 6200 fax 02 9910 6201
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CERTIFICATE OF ANALYSIS 331533-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01, Banksmeadow**
Number of Samples	Additional analysis
Date samples received	25/08/2023
Date completed instructions received	15/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	22/11/2023
Date of Issue	15/01/2024
Reissue Details	This report replaces R00 created on 22/11/2023 due to: New information received

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Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

Chromium Suite						
Our Reference		331533-A-1	331533-A-5	331533-A-7	331533-A-8	331533-A-9
Your Reference	UNITS	305	305	308	308	312
Depth		2-2.2	5.8-6	9.8-10	10.8-11	4.8-5
Date Sampled		22/08/23	22/08/23	22/08/23	22/08/23	23/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.2	5.7	4.8	4.8	5.7
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	0.008	0.006	0.008	0.006
a-Chromium Reducible Sulfur	moles H^+ /t	<3	5	4	5	4
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	0.0080	0.011	0.011	0.0060
a-Net Acidity	moles H^+ /t	<5	5.2	6.8	6.8	<5
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	<5	5.2	6.8	6.8	<5
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	<0.005	0.0080	0.011	0.011	0.0060

Chromium Suite						
Our Reference		331533-A-12	331533-A-15	331533-A-16	331533-A-20	331533-A-23
Your Reference	UNITS	312	312	316	316	316
Depth		7.8-8	10.8-11	1.4-1.6	4.8-5	7.8-7.8
Date Sampled		23/08/23	23/08/23	22/08/23	22/08/23	22/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.1	4.7	5.1	4.5	4.7
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.006	0.007	<0.005	0.008	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	4	4	<3	5	10
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.0070	0.013	<0.005	0.014	0.022
a-Net Acidity	moles H^+ /t	<5	8.2	<5	9.0	14
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	1
a-Net Acidity without ANCE	moles H^+ /t	<5	8.2	<5	9.0	14
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	1.0
s-Net Acidity without ANCE	%w/w S	0.0070	0.013	<0.005	0.014	0.022

Chromium Suite					
Our Reference		331533-A-25	331533-A-26	331533-A-30	331533-A-33
Your Reference	UNITS	316	327	327	327
Depth		9.8-10	1-1.2	4.8-5	7.8-8
Date Sampled		22/08/23	18/08/23	18/08/23	18/08/23
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	25/08/2023	25/08/2023	25/08/2023	25/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.5	5.4	5.5	4.8
s-TAA pH 6.5	%w/w S	0.02	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	11	<5	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	<0.005	<0.005	0.009
a-Chromium Reducible Sulfur	moles H^+ /t	<3	<3	<3	6
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.018	<0.005	<0.005	0.013
a-Net Acidity	moles H^+ /t	11	<5	<5	8.2
Liming rate	kg $CaCO_3$ /t	0.8	<0.75	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	11	<5	<5	8.2
Liming rate without ANCE	kg $CaCO_3$ /t	0.83	<0.75	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	0.018	<0.005	<0.005	0.013

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Net acidity including ANC has a safety factor of 1.5 applied. Neutralising value (NV) of 100% is assumed for liming rate. The recommendation that the SHCL concentration be multiplied by a factor of 2 to ensure retained acidity is not underestimated, has not been applied in the SHCL result. However, it has been applied in the SNAS calculation: SNAS % = (SHCL-SKCL)x2

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			25/08/2023	1	25/08/2023	25/08/2023		25/08/2023	[NT]
Date analysed	-			16/11/2023	1	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	1	5.2	5.2	0	98	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	1	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	97	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	1	<0.005	0.005	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	<3	1	<3	3	0	[NT]	[NT]
S_{HCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{KCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{NAS}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	<0.05	1	[NT]	[NT]		100	[NT]
s-ANC_{BT}	%w/w S	0.05	Inorg-068	<0.05	1	[NT]	[NT]		[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	<0.005	1	<0.005	0.0060	18	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	<0.005	1	<0.005	0.0060	18	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	25	25/08/2023	25/08/2023		[NT]	[NT]
Date analysed	-			[NT]	25	16/11/2023	16/11/2023		[NT]	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	25	4.5	4.5	0	[NT]	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	25	0.02	0.02	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	25	11	12	9	[NT]	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	25	<0.005	<0.005	0	[NT]	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	25	<3	<3	0	[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	25	0.018	0.018	0	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	25	11	12	9	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	25	0.8	0.9	12	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	25	11	12	9	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	25	0.83	0.86	4	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	25	0.018	0.018	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01, Banksmeadow
Envirolab Reference	331533-A
Date Sample Received	25/08/2023
Date Instructions Received	15/11/2023
Date Results Expected to be Reported	22/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	8
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Chromium Suite	On Hold
305-2-2.2	✓	
305-2.8-3		✓
305-3.8-4		✓
305-4.8-5		✓
305-5.8-6	✓	
305-6.8-7		✓
308-9.8-10	✓	
308-10.8-11	✓	
312-4.8-5	✓	
312-5.8-6		✓
312-6.8-7		✓
312-7.8-8	✓	
312-8.8-9		✓
312-9.8-10.1		✓
312-10.8-11	✓	
316-1.4-1.6	✓	
316-1.8-2		✓
316-2.8-3		✓
316-3.8-4		✓
316-4.8-5	✓	
316-5.8-6		✓
316-6.8-7		✓
316-7.8-7.8	✓	
316-8.8-9		✓
316-9.8-10	✓	
327-1-1.2	✓	
327-1.8-2		✓
327-2.8-3		✓
327-3.8-4		✓
327-4.8-5	✓	
327-5.8-6		✓
327-6.8-7		✓

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Sample ID	Chromium Suite	On Hold
327-7.8-8	✓	
327-8.8-9		✓
328C-6.8-7		✓
328C-7.8-8		✓
328B-6.8-7		✓
328B-7.8-8		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 331837

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	16 Soil
Date samples received	31/08/2023
Date completed instructions received	31/08/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	07/09/2023
Date of Issue	03/10/2023
Reissue Details	This report replaces R00 due to amendments to sample IDs.

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Results Approved By
Diego Bigolin, Inorganics Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

sPOCAS field test						
Our Reference		331837-1	331837-2	331837-3	331837-4	331837-5
Your Reference	UNITS	331	331	331	331	331
Depth		6.3-6.5	6.8-7	7.3-7.5	7.8-8	8.3-8.5
Date Sampled		28/08/2023	28/08/2023	28/08/2023	28/08/2023	28/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
pH_F (field pH test)	pH Units	6.4	6.6	6.7	6.9	6.9
pH_{FOX} (field peroxide test)	pH Units	3.1	2.9	3.4	3.0	3.1
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		331837-6	331837-7	331837-8	331837-9	331837-10
Your Reference	UNITS	331	333	333	333	333
Depth		8.8-9	5.8-6	6.5-7	6.8-7	7.3-7.5
Date Sampled		28/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
pH_F (field pH test)	pH Units	6.9	7.5	7.4	7.4	7.6
pH_{FOX} (field peroxide test)	pH Units	3.9	2.3	3.9	3.9	3.8
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		331837-11	331837-12	331837-13	331837-14	331837-15
Your Reference	UNITS	334	334	334	334	334
Depth		6-6.2	6.3-6.5	6.8-7	7.3-7.5	7.8-8
Date Sampled		29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
Date analysed	-	01/09/2023	01/09/2023	01/09/2023	01/09/2023	01/09/2023
pH_F (field pH test)	pH Units	7.8	7.6	7.1	7.4	7.4
pH_{FOX} (field peroxide test)	pH Units	3.8	3.6	3.2	3.0	3.2
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test		
Our Reference		331837-16
Your Reference	UNITS	317
Depth		4.6-4.8
Date Sampled		21/08/2023
Type of sample		Soil
Date prepared	-	01/09/2023
Date analysed	-	01/09/2023
pH_F (field pH test)	pH Units	4.5
pH_{FOX} (field peroxide test)	pH Units	3.5
Reaction Rate*	-	Low reaction

Method ID	Methodology Summary
Inorg-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions.

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			01/09/2023	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	01/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	98	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	331837
Date Sample Received	31/08/2023
Date Instructions Received	31/08/2023
Date Results Expected to be Reported	07/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	16 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	sPOCAS field test
331-6.3-6.5	✓
331-6.8-7	✓
331-7.3-7.5	✓
331-7.8-8	✓
331-8.3-8.5	✓
331-8.8-9	✓
333-5.8-6	✓
333-6.5-6.7	✓
333-6.8-7	✓
333-7.3-7.5	✓
334-6-6.2	✓
334-6.3-6.5	✓
334-6.8-7	✓
334-7.3-7.5	✓
334-7.8-8	✓
317-4.6-4.8	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden	**Order Number:** ELS Lab Quote No: 23SY225 **Sampler:** PJ	12 Ashley St, Chatswood 2067 NSW
Email:	david.holden@douglaspartners.com.au		**Attn:** Aileen Hie
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day		
Prior Storage:	☐ Fridge ☑ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?** ☑ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen											Notes/ Preservation/ Additional Requirements
1	331	6.3	6.5	28-08-23	S	B	x											
2	331	6.8	7	28-08-23	S	B	x											
3	331	7.3	7.5	28-08-23	S	B	x											
4	331	7.8	8	28-08-23	S	B	x											
5	331	8.3	8.5	28-08-23	S	B	x											
6	331	8.8	9	28-08-23	S	B	x											
7	333	5.8	6	29-08-23	S	B	x											
8	333	6.3	6.5	29-08-23	S	B	x											
	333	5.8	6	29-08-23	S	B	x											ENVIROLAB Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200
	333	6.3	6.5	29-08-23	S	B	x											Job No: 331837
9	9 333	6.8	7	29-08-23	S	B	x											Date Received: 30/8
10	333	7.3	7.5	29-08-23	S	B	x											Time Received: 15 35
11	334	6	6.2	29-08-23	S	B	x											Received By: CH
12	334	6.3	6.5	29-08-23	S	B	x											Temp: Cool/Ambient ~~Cooling: Ice/Icepack~~ 4.5
																		Security: Intact/Broken/None

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:		**Transported to laboratory by:** DP	**Lab Ref. No:** 331837
Send results to:	Douglas Partners Pty Ltd		**Received by:** Christine Ho
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:** (02) 9809 0666	**Date & Time:** 30/8/23 1535
Relinquished by:	PJ, 2:00 pm, 30/8/23	**Date:** 30-08-23 **Signed:**	**Signed:**

Douglas Partners
Geotechnics I Environment I Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 30-08-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen										Notes/ Preservation/ Additional Requirements
13	334	6.8	7	29-08-23	S	B	x										
14	334	7.3	7.5	29-08-23	S	B	x										
15	334	7.8	8	29-08-23	S	B	x										
16	317	4.6	4.8	21-08-23	S	B	x										
8	330	6.5	6.7	29/8													
10	330	7.3	7.5	29/8													

#331837
CH 30/8/23

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CERTIFICATE OF ANALYSIS 331837-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01 Banksmeadow**
Number of Samples	Additional analysis
Date samples received	31/08/2023
Date completed instructions received	15/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	22/11/2023
Date of Issue	15/01/2024
Reissue Details	This report replaces R00 created on 22/11/2023 due to: New information received

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Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

Chromium Suite						
Our Reference		331837-A-2	331837-A-5	331837-A-7	331837-A-12	331837-A-14
Your Reference	UNITS	331	331	333	334	334
Depth		6.8-7	8.3-8.5	5.8-6	6.3-6.5	7.3-7.5
Date Sampled		28/08/2023	28/08/2023	29/08/2023	29/08/2023	29/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	31/08/2023	31/08/2023	31/08/2023	31/08/2023	31/08/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.5	5.6	4.9	6.3	5.2
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.01	0.02	0.01	0.01	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	8	12	7	8	16
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.016	0.020	0.014	0.013	0.026
a-Net Acidity	moles H^+ /t	9.8	12	8.8	8.0	16
Liming rate	kg $CaCO_3$ /t	<0.75	0.9	<0.75	<0.75	1
a-Net Acidity without ANCE	moles H^+ /t	9.8	12	8.8	8.0	16
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	0.94	<0.75	<0.75	1.2
s-Net Acidity without ANCE	%w/w S	0.016	0.020	0.014	0.013	0.026

Chromium Suite		
Our Reference		331837-A-16
Your Reference	UNITS	317
Depth		4.6-4.8
Date Sampled		21/08/2023
Type of sample		Soil
Date prepared	-	31/08/2023
Date analysed	-	16/11/2023
pH $_{kcl}$	pH units	4.7
s-TAA pH 6.5	%w/w S	0.01
TAA pH 6.5	moles H^+ /t	6
Chromium Reducible Sulfur	%w/w	0.008
a-Chromium Reducible Sulfur	moles H^+ /t	5
S_{HCl}	%w/w S	[NT]
S_{KCl}	%w/w S	[NT]
S_{NAS}	%w/w S	[NT]
ANC_{BT}	% $CaCO_3$	[NT]
s-ANC_{BT}	%w/w S	[NT]
s-Net Acidity	%w/w S	0.018
a-Net Acidity	moles H^+ /t	11
Liming rate	kg $CaCO_3$ /t	0.8
a-Net Acidity without ANCE	moles H^+ /t	11
Liming rate without ANCE	kg $CaCO_3$ /t	0.83
s-Net Acidity without ANCE	%w/w S	0.018

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Net acidity including ANC has a safety factor of 1.5 applied. Neutralising value (NV) of 100% is assumed for liming rate. The recommendation that the SHCL concentration be multiplied by a factor of 2 to ensure retained acidity is not underestimated, has not been applied in the SHCL result. However, it has been applied in the SNAS calculation: SNAS % = (SHCL-SKCL)x2

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			31/08/2023	2	31/08/2023	31/08/2023		31/08/2023	[NT]
Date analysed	-			16/11/2023	2	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	2	5.5	5.5	0	98	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	2	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	<5	2	<5	<5	0	96	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	2	0.01	0.01	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	<3	2	8	9	12	[NT]	[NT]
S_{HCl}	%w/w S	0.005	Inorg-068	<0.005	2	[NT]	[NT]		[NT]	[NT]
S_{KCl}	%w/w S	0.005	Inorg-068	<0.005	2	[NT]	[NT]		[NT]	[NT]
S_{NAS}	%w/w S	0.005	Inorg-068	<0.005	2	[NT]	[NT]		[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	<0.05	2	[NT]	[NT]		100	[NT]
s-ANC_{BT}	%w/w S	0.05	Inorg-068	<0.05	2	[NT]	[NT]		[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	<0.005	2	0.016	0.015	6	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	<5	2	9.8	9.5	3	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	2	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	<5	2	9.8	9.5	3	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	2	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	<0.005	2	0.016	0.015	6	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01 Banksmeadow
Envirolab Reference	331837-A
Date Sample Received	31/08/2023
Date Instructions Received	15/11/2023
Date Results Expected to be Reported	22/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Chromium Suite	On Hold
331-6.3-6.5		✓
331-6.8-7	✓	
331-7.3-7.5		✓
331-7.8-8		✓
331-8.3-8.5	✓	
331-8.8-9		✓
333-5.8-6	✓	
333-6.5-7		✓
333-6.8-7		✓
333-7.3-7.5		✓
334-6-6.2		✓
334-6.3-6.5	✓	
334-6.8-7		✓
334-7.3-7.5	✓	
334-7.8-8		✓
317-4.6-4.8	✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 332466

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01**
Number of Samples	120 Soil
Date samples received	06/09/2023
Date completed instructions received	06/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	14/09/2023
Date of Issue	14/09/2023

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Results Approved By
Priya Samarawickrama, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

sPOCAS field test						
Our Reference		332466-1	332466-2	332466-3	332466-4	332466-5
Your Reference	UNITS	202	202	202	202	202
Depth		0.5-0.7	0.8-1	1-1.45	1.5-1.7	2-2.2
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	7.8	8.0	7.8	7.9	8.6
pH_{FOX} (field peroxide test)	pH Units	5.6	6.2	5.3	6.0	5.8
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-6	332466-7	332466-8	332466-9	332466-10
Your Reference	UNITS	202	202	202	202	202
Depth		2.5-2.95	3-3.2	3.5-3.7	4-4.45	4.5-4.7
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	7.9	7.7	8.3	8.2	7.5
pH_{FOX} (field peroxide test)	pH Units	5.5	5.5	5.7	5.3	5.3
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-11	332466-12	332466-13	332466-14	332466-15
Your Reference	UNITS	202	202	202	202	202
Depth		5-5.2	5.5-5.95	6.5-6.95	7.5-7.95	8.5-8.9
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	8.0	8.2	8.1	8.1	8.7
pH_{FOX} (field peroxide test)	pH Units	5.8	5.6	6.5	5.8	3.1
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-16	332466-17	332466-18	332466-19	332466-20
Your Reference	UNITS	202	202	202	202	202
Depth		9-9.7	9.7-9.95	10.5-10.95	11.5-11.8	12.5-12.8
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	8.3	8.8	8.8	8.9	8.7
pH_{FOX} (field peroxide test)	pH Units	4.4	5.2	4.4	3.9	3.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-21	332466-22	332466-23	332466-24	332466-25
Your Reference	UNITS	202	202	202	202	202
Depth		13.5-13.95	14.5-14.65	14.65-14.95	15.5-15.95	16.5-16.95
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	8.2	7.8	7.5	7.3	7.6
pH_{FOX} (field peroxide test)	pH Units	3.5	3.9	3.6	3.0	3.4
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-26	332466-27	332466-28	332466-29	332466-30
Your Reference	UNITS	202	202	203	203	203
Depth		18-18.45	19.5-19.95	0.6-0.8	1-1.45	1.5-1.7
Date Sampled		1/09/23	1/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	7.6	7.3	7.8	8.0	7.5
pH_{FOX} (field peroxide test)	pH Units	3.8	2.9	5.6	5.7	5.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-31	332466-32	332466-33	332466-34	332466-35
Your Reference	UNITS	203	203	203	203	203
Depth		2-2.2	2.5-2.95	3-3.2	3.5-3.7	4-4.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	7.2	7.2	7.3	7.2	6.6
pH_{FOX} (field peroxide test)	pH Units	5.7	5.7	5.6	5.4	3.9
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-36	332466-37	332466-38	332466-39	332466-40
Your Reference	UNITS	203	203	203	203	203
Depth		4.5-4.7	5-5.2	5.5-5.95	7-7.45	8-8.35
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.8	6.7	6.6	6.6	5.9
pH_{FOX} (field peroxide test)	pH Units	5.5	5.8	5.4	3.5	2.4
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-41	332466-42	332466-43	332466-44	332466-45
Your Reference	UNITS	203	203	203	203	203
Depth		8.35-8.45	9-9.45	10-10.45	11-11.45	12-12.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.6	6.2	6.2	6.2	6.1
pH_{FOX} (field peroxide test)	pH Units	2.1	2.4	2.5	2.5	2.4
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-46	332466-47	332466-48	332466-49	332466-50
Your Reference	UNITS	203	203	203	203	203
Depth		13-13.34	14-14.45	15-15.3	16-16.3	17-17.45
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.0	5.9	6.2	6.0	6.0
pH_{FOX} (field peroxide test)	pH Units	2.7	4.2	3.8	3.4	3.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-51	332466-52	332466-53	332466-54	332466-55
Your Reference	UNITS	203	203	204	204	204
Depth		18.5-18.8	20-20.22	1.5-1.7	2-2.2	2.5-2.95
Date Sampled		5/09/23	5/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.4	5.8	5.3	5.3	5.5
pH_{FOX} (field peroxide test)	pH Units	2.4	2.8	4.7	5.5	5.2
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-56	332466-57	332466-58	332466-59	332466-60
Your Reference	UNITS	204	204	204	204	204
Depth		3-3.2	3.5-3.7	4-4.45	4.5-4.7	5-5.2
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.5	5.8	6.0	6.0	6.1
pH_{FOX} (field peroxide test)	pH Units	5.6	5.9	5.4	5.4	5.5
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-61	332466-62	332466-63	332466-64	332466-65
Your Reference	UNITS	204	204	204	204	204
Depth		5.5-5.95	7-7.45	8-8.38	9-9.45	10-10.45
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.0	6.3	6.2	6.3	6.3
pH_{FOX} (field peroxide test)	pH Units	5.5	6.4	6.0	2.8	4.4
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-66	332466-67	332466-68	332466-69	332466-70
Your Reference	UNITS	204	204	204	204	204
Depth		11-11.45	12-12.45	13-13.3	13.3-13.41	14-14.45
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.3	6.0	5.9	6.1	6.1
pH_{FOX} (field peroxide test)	pH Units	3.6	3.4	3.9	3.2	3.4
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-71	332466-72	332466-73	332466-74	332466-75
Your Reference	UNITS	204	204	204	204	204
Depth		15-15.36	16-16.45	17-17.45	18.5-18.87	20-20.4
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.2	6.2	6.0	6.0	6.0
pH_{FOX} (field peroxide test)	pH Units	2.4	2.0	2.2	2.1	2.1
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-76	332466-77	332466-78	332466-79	332466-80
Your Reference	UNITS	207	207	207	207	207
Depth		0.5-0.7	1-1.45	1.5-1.7	2-2.2	2.5-2.95
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.2	5.5	5.6	5.5	5.6
pH_{FOX} (field peroxide test)	pH Units	3.8	5.3	5.0	5.0	5.0
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-81	332466-82	332466-83	332466-84	332466-85
Your Reference	UNITS	207	207	207	207	207
Depth		3-3.2	3.5-3.7	4-4.45	4.5-4.7	5-5.2
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.5	5.6	5.7	6.6	6.2
pH_{FOX} (field peroxide test)	pH Units	4.9	5.1	5.5	5.8	5.9
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-86	332466-87	332466-88	332466-89	332466-90
Your Reference	UNITS	207	207	207	207	207
Depth		5.5-5.95	6.5-6.95	8-8.45	9-9.45	10-10.45
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.5	6.7	6.5	6.6	6.6
pH_{FOX} (field peroxide test)	pH Units	5.9	5.9	3.8	4.7	4.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-91	332466-92	332466-93	332466-94	332466-95
Your Reference	UNITS	207	207	207	207	207
Depth		11-11.45	12-12.45	13-13.45	14-14.45	15-15.45
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.2	6.8	6.3	6.3	5.9
pH_{FOX} (field peroxide test)	pH Units	3.3	3.1	3.8	4.2	4.3
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-96	332466-97	332466-98	332466-99	332466-100
Your Reference	UNITS	207	207	207	207	207
Depth		16-16.2	16.2-16.45	17-17.45	18.5-18.89	20-20.38
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	5.8	5.3	6.0	6.1	6.2
pH_{FOX} (field peroxide test)	pH Units	3.9	3.0	3.0	5.7	4.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-101	332466-102	332466-103	332466-104	332466-105
Your Reference	UNITS	208	208	208	208	208
Depth		1.8-2	2.3-2.5	2.8-3	3.3-3.5	3.8-4
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.0	6.0	6.3	6.4	6.5
pH_{FOX} (field peroxide test)	pH Units	5.9	5.1	6.7	6.2	6.3
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-106	332466-107	332466-108	332466-109	332466-110
Your Reference	UNITS	208	208	208	208	208
Depth		4.3-4.5	4.8-5	5.3-5.5	6.5-6.95	7.5-7.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.1	6.4	6.5	6.8	6.8
pH_{FOX} (field peroxide test)	pH Units	5.8	6.3	6.2	6.3	5.2
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-111	332466-112	332466-113	332466-114	332466-115
Your Reference	UNITS	208	208	208	208	208
Depth		8.5-8.95	10.5-10.75	11.5-11.8	12.5-12.85	13.6-13.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.6	6.7	6.4	6.2	6.2
pH_{FOX} (field peroxide test)	pH Units	3.8	4.2	4.1	3.2	3.0
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

sPOCAS field test						
Our Reference		332466-116	332466-117	332466-118	332466-119	332466-120
Your Reference	UNITS	208	208	208	208	208
Depth		14.5-14.85	15.5-15.95	17-17.95	18.5-18.95	13.5-13.5
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
Date analysed	-	11/09/2023	11/09/2023	11/09/2023	11/09/2023	11/09/2023
pH_F (field pH test)	pH Units	6.1	5.9	6.2	6.1	5.0
pH_{FOX} (field peroxide test)	pH Units	3.0	3.3	2.7	4.2	4.6
Reaction Rate*	-	Low reaction	Low reaction	Low reaction	Low reaction	Low reaction

Method ID	Methodology Summary
Inorg-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions.

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			11/09/2023	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			11/09/2023	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	11/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01
Envirolab Reference	332466
Date Sample Received	06/09/2023
Date Instructions Received	06/09/2023
Date Results Expected to be Reported	14/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	120 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Sample 208 depth 9.5-9.8 not received, extra sample 208 13.5-13.6 received

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	sPOCAS field test
202-0.5-0.7	✓
202-0.8-1	✓
202-1-1.45	✓
202-1.5-1.7	✓
202-2-2.2	✓
202-2.5-2.95	✓
202-3-3.2	✓
202-3.5-3.7	✓
202-4-4.45	✓
202-4.5-4.7	✓
202-5-5.2	✓
202-5.5-5.95	✓
202-6.5-6.95	✓
202-7.5-7.95	✓
202-8.5-8.9	✓
202-9-9.7	✓
202-9.7-9.95	✓
202-10.5-10.95	✓
202-11.5-11.8	✓
202-12.5-12.8	✓
202-13.5-13.95	✓
202-14.5-14.65	✓
202-14.65-14.95	✓
202-15.5-15.95	✓
202-16.5-16.95	✓
202-18-18.45	✓
202-19.5-19.95	✓
203-0.6-0.8	✓
203-1-1.45	✓
203-1.5-1.7	✓
203-2-2.2	✓
203-2.5-2.95	✓

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Sample ID	sPOCAS field test
203-3-3.2	✓
203-3.5-3.7	✓
203-4-4.45	✓
203-4.5-4.7	✓
203-5-5.2	✓
203-5.5-5.95	✓
203-7-7.45	✓
203-8-8.35	✓
203-8.35-8.45	✓
203-9-9.45	✓
203-10-10.45	✓
203-11-11.45	✓
203-12-12.45	✓
203-13-13.34	✓
203-14-14.45	✓
203-15-15.3	✓
203-16-16.3	✓
203-17-17.45	✓
203-18.5-18.8	✓
203-20-20.22	✓
204-1.5-1.7	✓
204-2-2.2	✓
204-2.5-2.95	✓
204-3-3.2	✓
204-3.5-3.7	✓
204-4-4.45	✓
204-4.5-4.7	✓
204-5-5.2	✓
204-5.5-5.95	✓
204-7-7.45	✓
204-8-8.38	✓
204-9-9.45	✓

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Sample ID	sPOCAS field test
204-10-10.45	✓
204-11-11.45	✓
204-12-12.45	✓
204-13-13.3	✓
204-13.3-13.41	✓
204-14-14.45	✓
204-15-15.36	✓
204-16-16.45	✓
204-17-17.45	✓
204-18.5-18.87	✓
204-20-20.4	✓
207-0.5-0.7	✓
207-1-1.45	✓
207-1.5-1.7	✓
207-2-2.2	✓
207-2.5-2.95	✓
207-3-3.2	✓
207-3.5-3.7	✓
207-4-4.45	✓
207-4.5-4.7	✓
207-5-5.2	✓
207-5.5-5.95	✓
207-6.5-6.95	✓
207-8-8.45	✓
207-9-9.45	✓
207-10-10.45	✓
207-11-11.45	✓
207-12-12.45	✓
207-13-13.45	✓
207-14-14.45	✓
207-15-15.45	✓
207-16-16.2	✓

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Sample ID	sPOCAS field test
207-16.2-16.45	✓
207-17-17.45	✓
207-18.5-18.89	✓
207-20-20.38	✓
208-1.8-2	✓
208-2.3-2.5	✓
208-2.8-3	✓
208-3.3-3.5	✓
208-3.8-4	✓
208-4.3-4.5	✓
208-4.8-5	✓
208-5.3-5.5	✓
208-6.5-6.95	✓
208-7.5-7.95	✓
208-8.5-8.95	✓
208-10.5-10.75	✓
208-11.5-11.8	✓
208-12.5-12.85	✓
208-13.6-13.95	✓
208-14.5-14.85	✓
208-15.5-15.95	✓
208-17-17.95	✓
208-18.5-18.95	✓
208-13.5-13.5	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Quote No: 235Y225	**Sampler:**	PJ		12 Ashley St, Chatswood 2067 NSW
Email:	david.holden@douglaspartners.com.au					**Attn:**	Aileen Hie
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						
Prior Storage:	☐ Fridge ☑ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)			

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen											Notes/ Preservation/ Additional Requirements
1	202	0.5	0.7	1-09-23	S	B	x											
2	202	0.8	1	1-09-23	S	B	x											
3	202	1	1.45	1-09-23	S	B	x											
4	202	1.5	1.7	1-09-23	S	B	x											
5	202	2	2.2	1-09-23	S	B	x											
6	202	2.5	2.95	1-09-23	S	B	x											
7	202	3	3.2	1-09-23	S	B	x											
8	202	3.5	3.7	1-09-23	S	B	x											
9	202	4	4.45	1-09-23	S	B	x											
10	202	4.5	4.7	1-09-23	S	B	x											
11	202	5	5.2	1-09-23	S	B	x											
12	202	5.5	5.95	1-09-23	S	B	x											
13	202	6.5	6.95	1-09-23	S	B	x											
14	202	7.5	7.95	1-09-23	S	B	x											

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 332466
Date Received: 6/9/23
Time Received: 1400
Received By: CT
Temp: Cool/Ambient 5°C
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			
Number of samples in container:		**Transported to laboratory by:**	DP
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666
Relinquished by:	PJ, 2:00 pm, 6/9/23	**Date:**	06-09-23
		Signed:	

LAB RECEIPT
Lab Ref. No: 332466
Received by: Christine Lo
Date & Time: 7/9/23
Signed: ~~CT~~

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 06-09-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen										
15	202	8.5	8.9	1-09-23	S	B	x										
16	202	9.5	9.7	1-09-23	S	B	x										
17	202	9.7	9.95	1-09-23	S	B	x										
18	202	10.5	10.95	1-09-23	S	B	x										
19	202	11.5	11.8	1-09-23	S	B	x										
20	202	12.5	12.8	1-09-23	S	B	x										
21	202	13.5	13.95	1-09-23	S	B	x										
22	202	14.5	14.65	1-09-23	S	B	x										
23	202	14.65	14.95	1-09-23	S	B	x										
24	202	15.5	15.95	1-09-23	S	B	x										
25	202	16.5	16.95	1-09-23	S	B	x										
26	202	18	18.45	1-09-23	S	B	x										
27	202	19.5	19.95	1-09-23	S	B	x										
28	203	0.6	0.8	5-09-23	S	B	x										
29	203	1	1.45	5-09-23	S	B	x										
30	203	1.5	1.7	5-09-23	S	B	x										
31	203	2	2.2	5-09-23	S	B	x										
32	203	2.5	2.95	5-09-23	S	B	x										

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 06-09-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen										
33	203	3	3.2	5-09-23	S	B	x										
34	203	3.5	3.7	5-09-23	S	B	x										
35	203	4	4.45	5-09-23	S	B	x										
36	203	4.5	4.7	5-09-23	S	B	x										
37	203	5	5.2	5-09-23	S	B	x										
38	203	5.5	5.95	5-09-23	S	B	x										
39	203	7	7.45	5-09-23	S	B	x										
40	203	8	8.35	5-09-23	S	B	x										
41	203	8.35	8.45	5-09-23	S	B	x										
42	203	9	9.45	5-09-23	S	B	x										
43	203	10	10.45	5-09-23	S	B	x										
44	203	11	11.45	5-09-23	S	B	x										
45	203	12	12.45	5-09-23	S	B	x										
46	203	13	13.34	5-09-23	S	B	x										
47	203	14	14.45	5-09-23	S	B	x										
48	203	15	15.3	5-09-23	S	B	x										
49	203	16	16.3	5-09-23	S	B	x										
50	203	17	17.45	5-09-23	S	B	x										
51	203	18.5	18.8	5-09-23	S	B	x										

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 06-09-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen										
52	203	20	20.22	5-09-23	S	B	x										
53	204	1.5	1.7	4-09-23	S	B	x										
54	204	2	2.2	4-09-23	S	B	x										
55	204	2.5	2.95	4-09-23	S	B	x										
56	204	3	3.2	4-09-23	S	B	x										
57	204	3.5	3.7	4-09-23	S	B	x										
58	204	4	4.45	4-09-23	S	B	x										
59	204	4.5	4.7	4-09-23	S	B	x										
60	204	5	5.2	4-09-23	S	B	x										
61	204	5.5	5.95	4-09-23	S	B	x										
62	204	7	7.45	4-09-23	S	B	x										
63	204	8	8.38	4-09-23	S	B	x										
64	204	9	9.45	4-09-23	S	B	x										
65	204	10	10.45	4-09-23	S	B	x										
66	204	11	11.45	4-09-23	S	B	x										
67	204	12	12.45	4-09-23	S	B	x										
68	204	13	13.3	4-09-23	S	B	x										
69	204	13.3	13.41	4-09-23	S	B	x										
70	204	14	14.45	4-09-23	S	B	x										

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CHAIN OF CUSTODY DESPATCH SHEET

Project No: 219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:**	06-09-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen											
71	204	15	15.36	4-09-23	S	B	x											
72	204	16	16.45	4-09-23	S	B	x											
73	204	17	17.45	4-09-23	S	B	x											
74	204	18.5	18.87	4-09-23	S	B	x											
75	204	20	20.4	4-09-23	S	B	x											
76	207	0.5	0.7	31-08-23	S	B	x											
77	207	1	1.45	31-08-23	S	B	x											
78	207	1.5	1.7	31-08-23	S	B	x											
79	207	2	2.2	31-08-23	S	B	x											
80	207	2.5	2.95	31-08-23	S	B	x											
81	207	3	3.2	31-08-23	S	B	x											
82	207	3.5	3.7	31-08-23	S	B	x											
83	207	4	4.45	31-08-23	S	B	x											
84	207	4.5	4.7	31-08-23	S	B	x											
85	207	5	5.2	31-08-23	S	B	x											
86	207	5.5	5.95	31-08-23	S	B	x											
87	207	6.5	6.95	31-08-23	S	B	x											
88	207	8	8.45	31-08-23	S	B	x											
89	207	9	9.45	31-08-23	S	B	x											

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 06-09-23

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - glass P - plastic B - bag	ASS Screen										
90	207	10	10.45	31-08-23	S	B	x										
91	207	11	11.45	31-08-23	S	B	x										
92	207	12	12.45	31-08-23	S	B	x										
93	207	13	13.45	31-08-23	S	B	x										
94	207	14	14.45	31-08-23	S	B	x										
95	207	15	15.45	31-08-23	S	B	x										
96	207	16	16.2	31-08-23	S	B	x										
97	207	16.2	16.45	31-08-23	S	B	x										
98	207	17	17.45	31-08-23	S	B	x										
99	207	18.5	18.89	31-08-23	S	B	x										
100	207	20	20.38	31-08-23	S	B	x										
101	208	1.8	2	30-08-23	S	B	x										
102	208	2.3	2.5	30-08-23	S	B	x										
103	208	2.8	3	30-08-23	S	B	x										
104	208	3.3	3.5	30-08-23	S	B	x										
105	208	3.8	4	30-08-23	S	B	x										
106	208	4.3	4.5	30-08-23	S	B	x										
107	208	4.8	5	30-08-23	S	B	x										
108	208	5.3	5.5	30-08-23	S	B	x										

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.01	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	06-09-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - glass P - plastic B - bag	Analytes: ASS Screen										Notes/ Preservation/ Additional Requirements
109	208	6.5	6.95	30-08-23	S	B	x										
110	208	7.5	7.95	30-08-23	S	B	x										
111	208	8.5	8.95	30-08-23	S	B	x										
NR	208	9.5	9.8	30-08-23	S	B	x										
112	208	10.5	10.75	30-08-23	S	B	x										
113	208	11.5	11.8	30-08-23	S	B	x										
114	208	12.5	12.85	30-08-23	S	B	x										
115	208	13.6	13.95	30-08-23	S	B	x										
116	208	14.5	14.85	30-08-23	S	B	x										
117	208	15.5	15.95	30-08-23	S	B	x										
118	208	17	17.95	30-08-23	S	B	x										
119	208	18.5	18.95	30-08-23	S	B	x										
Extra CH	~~120~~ ~~204~~	~~1~~	~~1.45~~		~~S~~	~~B~~											
	120	208	13.5	13.6		S	D										

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 332466-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.01**
Number of Samples	Additional analysis
Date samples received	06/09/2023
Date completed instructions received	15/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	22/11/2023
Date of Issue	22/11/2023

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Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

Chromium Suite						
Our Reference		332466-A-3	332466-A-9	332466-A-12	332466-A-15	332466-A-18
Your Reference	UNITS	202	202	202	202	202
Depth		1-1.45	4-4.45	5.5-5.95	8.5-8.9	10.5-10.95
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.8	5.8	6.2	6.0	4.8
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	<0.005	<0.005	0.02	0.01
a-Chromium Reducible Sulfur	moles H^+ /t	<3	<3	<3	13	7
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	<0.005	<0.005	0.020	0.012
a-Net Acidity	moles H^+ /t	<5	<5	<5	13	7.8
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	1	<0.75
a-Net Acidity without ANCE	moles H^+ /t	<5	<5	<5	13	7.8
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	0.96	<0.75
s-Net Acidity without ANCE	%w/w S	<0.005	<0.005	<0.005	0.020	0.012

Chromium Suite						
Our Reference		332466-A-19	332466-A-20	332466-A-23	332466-A-25	332466-A-26
Your Reference	UNITS	202	202	202	202	202
Depth		11.5-11.8	12.5-12.8	14.65-14.95	16.5-16.95	18-18.45
Date Sampled		1/09/23	1/09/23	1/09/23	1/09/23	1/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.6	4.6	4.9	4.6	4.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	6
Chromium Reducible Sulfur	%w/w	0.006	0.01	0.03	0.02	0.15
a-Chromium Reducible Sulfur	moles H^+ /t	4	8	17	11	96
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.0090	0.014	0.029	0.021	0.16
a-Net Acidity	moles H^+ /t	5.8	8.8	18	13	100
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	1	1	7.6
a-Net Acidity without ANCE	moles H^+ /t	5.8	8.8	18	13	100
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	1.4	0.98	7.6
s-Net Acidity without ANCE	%w/w S	0.0090	0.014	0.029	0.021	0.16

Chromium Suite						
Our Reference		332466-A-27	332466-A-35	332466-A-41	332466-A-42	332466-A-45
Your Reference	UNITS	202	203	203	203	203
Depth		19.5-19.95	4-4.45	8.35-8.45	9-9.45	12-12.45
Date Sampled		1/09/23	5/09/23	5/09/23	5/09/23	5/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.4	6.0	4.5	4.9	4.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01	0.02	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	10	<5	<5
Chromium Reducible Sulfur	%w/w	0.06	0.06	1.7	0.01	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	40	34	1,100	7	9
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.064	0.055	1.7	0.011	0.020
a-Net Acidity	moles H^+ /t	40	34	1,100	7.0	13
Liming rate	kg $CaCO_3$ /t	3	3	81	<0.75	1
a-Net Acidity without ANCE	moles H^+ /t	40	34	1,100	7.0	13
Liming rate without ANCE	kg $CaCO_3$ /t	3.0	2.6	81	<0.75	0.96
s-Net Acidity without ANCE	%w/w S	0.064	0.055	1.7	0.011	0.020

Chromium Suite						
Our Reference		332466-A-47	332466-A-49	332466-A-50	332466-A-52	332466-A-63
Your Reference	UNITS	203	203	203	203	204
Depth		14-14.45	16-16.3	17-17.45	20-20.22	8-8.38
Date Sampled		5/09/23	5/09/23	5/09/23	5/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.7	5.1	4.5	4.5	4.8
s-TAA pH 6.5	%w/w S	<0.01	<0.01	0.01	0.02	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	7	9	<5
Chromium Reducible Sulfur	%w/w	0.03	0.02	0.03	0.28	0.03
a-Chromium Reducible Sulfur	moles H^+ /t	17	9	21	180	20
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.029	0.015	0.044	0.30	0.034
a-Net Acidity	moles H^+ /t	18	9.5	28	190	21
Liming rate	kg $CaCO_3$ /t	1	<0.75	2	14	2
a-Net Acidity without ANCE	moles H^+ /t	18	9.5	28	190	21
Liming rate without ANCE	kg $CaCO_3$ /t	1.4	<0.75	2.1	14	1.6
s-Net Acidity without ANCE	%w/w S	0.029	0.015	0.044	0.30	0.034

Chromium Suite						
Our Reference		332466-A-64	332466-A-69	332466-A-71	332466-A-72	332466-A-73
Your Reference	UNITS	204	204	204	204	204
Depth		9-9.45	13.3-13.41	15-15.36	16-16.45	17-17.45
Date Sampled		4/09/23	4/09/23	4/09/23	4/09/23	4/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.6	5.0	5.2	5.2	4.5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	6
Chromium Reducible Sulfur	%w/w	0.02	0.03	0.02	0.02	0.03
a-Chromium Reducible Sulfur	moles H^+ /t	10	17	10	12	21
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.020	0.029	0.017	0.020	0.043
a-Net Acidity	moles H^+ /t	12	18	11	12	27
Liming rate	kg $CaCO_3$ /t	0.9	1	0.8	0.9	2
a-Net Acidity without ANCE	moles H^+ /t	12	18	11	12	27
Liming rate without ANCE	kg $CaCO_3$ /t	0.94	1.4	0.81	0.94	2.0
s-Net Acidity without ANCE	%w/w S	0.020	0.029	0.017	0.020	0.043

Chromium Suite						
Our Reference		332466-A-75	332466-A-76	332466-A-81	332466-A-89	332466-A-91
Your Reference	UNITS	204	207	207	207	207
Depth		20-20.4	0.5-0.7	3-3.2	9-9.45	11-11.45
Date Sampled		4/09/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.9	5.1	5.2	4.9	5.0
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.15	0.01	0.007	0.01	0.01
a-Chromium Reducible Sulfur	moles H^+ /t	91	8	4	8	7
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.15	0.016	0.0090	0.013	0.012
a-Net Acidity	moles H^+ /t	93	10	5.5	8.2	7.2
Liming rate	kg $CaCO_3$ /t	7	0.8	<0.75	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	93	10	5.5	8.2	7.2
Liming rate without ANCE	kg $CaCO_3$ /t	7.0	0.77	<0.75	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	0.15	0.016	0.0090	0.013	0.012

Chromium Suite						
Our Reference		332466-A-92	332466-A-96	332466-A-97	332466-A-98	332466-A-100
Your Reference	UNITS	207	207	207	207	207
Depth		12-12.45	16-16.2	16.2-16.45	17-17.45	20-20.38
Date Sampled		31/08/23	31/08/23	31/08/23	31/08/23	31/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.9	4.8	4.5	4.6	5.5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	0.02	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	5	12	<5	<5
Chromium Reducible Sulfur	%w/w	0.09	0.14	0.29	0.07	0.006
a-Chromium Reducible Sulfur	moles H^+ /t	54	86	180	43	4
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.092	0.14	0.31	0.075	0.0060
a-Net Acidity	moles H^+ /t	57	91	200	47	<5
Liming rate	kg $CaCO_3$ /t	4	7	15	4	<0.75
a-Net Acidity without ANCE	moles H^+ /t	57	91	200	47	<5
Liming rate without ANCE	kg $CaCO_3$ /t	4.3	6.8	15	3.5	<0.75
s-Net Acidity without ANCE	%w/w S	0.092	0.14	0.31	0.075	0.0060

Chromium Suite						
Our Reference		332466-A-102	332466-A-106	332466-A-109	332466-A-110	332466-A-111
Your Reference	UNITS	208	208	208	208	208
Depth		2.3-2.5	4.3-4.5	6.5-6.95	7.5-7.95	8.5-8.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	6.1	5.2	6.4	5.6	5.8
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	<0.005	0.01	0.01	0.03	0.008
a-Chromium Reducible Sulfur	moles H^+ /t	<3	9	7	16	5
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	0.017	0.012	0.026	0.0080
a-Net Acidity	moles H^+ /t	<5	10	7.2	16	5.2
Liming rate	kg $CaCO_3$ /t	<0.75	0.8	<0.75	1	<0.75
a-Net Acidity without ANCE	moles H^+ /t	<5	10	7.2	16	5.2
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	0.79	<0.75	1.2	<0.75
s-Net Acidity without ANCE	%w/w S	<0.005	0.017	0.012	0.026	0.0080

Chromium Suite						
Our Reference		332466-A-113	332466-A-114	332466-A-117	332466-A-118	332466-A-119
Your Reference	UNITS	208	208	208	208	208
Depth		11.5-11.8	12.5-12.85	15.5-15.95	17-17.95	18.5-18.95
Date Sampled		30/08/23	30/08/23	30/08/23	30/08/23	30/08/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/09/2023	06/09/2023	06/09/2023	06/09/2023	06/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.7	4.7	4.5	4.5	5.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01	0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	7	6	<5
Chromium Reducible Sulfur	%w/w	0.02	0.04	0.04	0.16	0.01
a-Chromium Reducible Sulfur	moles H^+ /t	11	23	25	100	8
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.021	0.042	0.052	0.17	0.012
a-Net Acidity	moles H^+ /t	13	26	32	110	7.5
Liming rate	kg $CaCO_3$ /t	1	2	2	8.1	<0.75
a-Net Acidity without ANCE	moles H^+ /t	13	26	32	110	7.5
Liming rate without ANCE	kg $CaCO_3$ /t	1.0	2.0	2.4	8.1	<0.75
s-Net Acidity without ANCE	%w/w S	0.021	0.042	0.052	0.17	0.012

Chromium Suite		
Our Reference		332466-A-120
Your Reference	UNITS	208
Depth		13.5-13.5
Date Sampled		30/08/23
Type of sample		Soil
Date prepared	-	06/09/2023
Date analysed	-	16/11/2023
pH $_{kcl}$	pH units	4.9
s-TAA pH 6.5	%w/w S	<0.01
TAA pH 6.5	moles H^+ /t	<5
Chromium Reducible Sulfur	%w/w	0.008
a-Chromium Reducible Sulfur	moles H^+ /t	5
S_{HCl}	%w/w S	[NT]
S_{KCl}	%w/w S	[NT]
S_{NAS}	%w/w S	[NT]
ANC_{BT}	% $CaCO_3$	[NT]
s-ANC_{BT}	%w/w S	[NT]
s-Net Acidity	%w/w S	0.012
a-Net Acidity	moles H^+ /t	7.2
Liming rate	kg $CaCO_3$ /t	<0.75
a-Net Acidity without ANCE	moles H^+ /t	7.2
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75
s-Net Acidity without ANCE	%w/w S	0.012

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Net acidity including ANC has a safety factor of 1.5 applied. Neutralising value (NV) of 100% is assumed for liming rate. The recommendation that the SHCL concentration be multiplied by a factor of 2 to ensure retained acidity is not underestimated, has not been applied in the SHCL result. However, it has been applied in the SNAS calculation: SNAS % = (SHCL-SKCL)x2

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			06/09/2023	12	06/09/2023	06/09/2023		06/09/2023	[NT]
Date analysed	-			16/11/2023	12	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	12	6.2	6.3	2	98	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	12	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	<5	12	<5	<5	0	96	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	12	<0.005	<0.005	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	<3	12	<3	<3	0	[NT]	[NT]
S_{HCl}	%w/w S	0.005	Inorg-068	<0.005	12	[NT]	[NT]		[NT]	[NT]
S_{KCl}	%w/w S	0.005	Inorg-068	<0.005	12	[NT]	[NT]		[NT]	[NT]
S_{NAS}	%w/w S	0.005	Inorg-068	<0.005	12	[NT]	[NT]		[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	<0.05	12	[NT]	[NT]		100	[NT]
s-ANC_{BT}	%w/w S	0.05	Inorg-068	<0.05	12	[NT]	[NT]		[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	<0.005	12	<0.005	<0.005	0	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	<5	12	<5	<5	0	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	12	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	<5	12	<5	<5	0	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	12	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	<0.005	12	<0.005	<0.005	0	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	42	06/09/2023	06/09/2023		06/09/2023	[NT]
Date analysed	-			[NT]	42	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	42	4.9	4.9	0	97	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	42	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	42	<5	<5	0	98	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	42	0.01	0.01	0	97	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	42	7	9	25	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	[NT]	42	[NT]	[NT]		100	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	42	0.011	0.014	24	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	42	7.0	9.0	25	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	42	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	42	7.0	9.0	25	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	42	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	42	0.011	0.014	24	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	72	06/09/2023	06/09/2023		06/09/2023	[NT]
Date analysed	-			[NT]	72	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	72	5.2	5.3	2	97	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	72	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	72	<5	<5	0	100	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	72	0.02	0.02	0	97	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	72	12	14	15	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	[NT]	72	[NT]	[NT]		100	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	72	0.020	0.022	10	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	72	12	14	15	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	72	0.9	1	11	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	72	12	14	15	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	72	0.94	1.1	16	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	72	0.020	0.022	10	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	100	06/09/2023	06/09/2023		[NT]	[NT]
Date analysed	-			[NT]	100	16/11/2023	16/11/2023		[NT]	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	100	5.5	5.5	0	[NT]	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	100	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	100	<5	<5	0	[NT]	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	100	0.006	0.01	50	[NT]	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	100	4	6	40	[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	100	0.0060	0.010	50	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	100	<5	6.2	21	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	100	<0.75	<0.75	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	100	<5	6.2	21	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	100	<0.75	<0.75	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	100	0.0060	0.010	50	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	118	06/09/2023	06/09/2023		[NT]	[NT]
Date analysed	-			[NT]	118	16/11/2023	16/11/2023		[NT]	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	118	4.5	4.5	0	[NT]	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	118	<0.01	0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	118	6	6	0	[NT]	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	118	0.16	0.17	6	[NT]	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	118	100	110	10	[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	118	0.17	0.18	6	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	118	110	110	0	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	118	8.1	8.6	6	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	118	110	110	0	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	118	8.1	8.6	6	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	118	0.17	0.18	6	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.01
Envirolab Reference	332466-A
Date Sample Received	06/09/2023
Date Instructions Received	15/11/2023
Date Results Expected to be Reported	22/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	5
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Chromium Suite	On Hold
202-0.5-0.7		✓
202-0.8-1		✓
202-1-1.45	✓	
202-1.5-1.7		✓
202-2-2.2		✓
202-2.5-2.95		✓
202-3-3.2		✓
202-3.5-3.7		✓
202-4-4.45	✓	
202-4.5-4.7		✓
202-5-5.2		✓
202-5.5-5.95	✓	
202-6.5-6.95		✓
202-7.5-7.95		✓
202-8.5-8.9	✓	
202-9-9.7		✓
202-9.7-9.95		✓
202-10.5-10.95	✓	
202-11.5-11.8	✓	
202-12.5-12.8	✓	
202-13.5-13.95		✓
202-14.5-14.65		✓
202-14.65-14.95	✓	
202-15.5-15.95		✓
202-16.5-16.95	✓	
202-18-18.45	✓	
202-19.5-19.95	✓	
203-0.6-0.8		✓
203-1-1.45		✓
203-1.5-1.7		✓
203-2-2.2		✓
203-2.5-2.95		✓

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Sample ID	Chromium Suite	On Hold
203-3-3.2		✓
203-3.5-3.7		✓
203-4-4.45	✓	
203-4.5-4.7		✓
203-5-5.2		✓
203-5.5-5.95		✓
203-7-7.45		✓
203-8-8.35		✓
203-8.35-8.45	✓	
203-9-9.45	✓	
203-10-10.45		✓
203-11-11.45		✓
203-12-12.45	✓	
203-13-13.34		✓
203-14-14.45	✓	
203-15-15.3		✓
203-16-16.3	✓	
203-17-17.45	✓	
203-18.5-18.8		✓
203-20-20.22	✓	
204-1.5-1.7		✓
204-2-2.2		✓
204-2.5-2.95		✓
204-3-3.2		✓
204-3.5-3.7		✓
204-4-4.45		✓
204-4.5-4.7		✓
204-5-5.2		✓
204-5.5-5.95		✓
204-7-7.45		✓
204-8-8.38	✓	
204-9-9.45	✓	

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Sample ID	Chromium Suite	On Hold
204-10-10.45		✓
204-11-11.45		✓
204-12-12.45		✓
204-13-13.3		✓
204-13.3-13.41	✓	
204-14-14.45		✓
204-15-15.36	✓	
204-16-16.45	✓	
204-17-17.45	✓	
204-18.5-18.87		✓
204-20-20.4	✓	
207-0.5-0.7	✓	
207-1-1.45		✓
207-1.5-1.7		✓
207-2-2.2		✓
207-2.5-2.95		✓
207-3-3.2	✓	
207-3.5-3.7		✓
207-4-4.45		✓
207-4.5-4.7		✓
207-5-5.2		✓
207-5.5-5.95		✓
207-6.5-6.95		✓
207-8-8.45		✓
207-9-9.45	✓	
207-10-10.45		✓
207-11-11.45	✓	
207-12-12.45	✓	
207-13-13.45		✓
207-14-14.45		✓
207-15-15.45		✓
207-16-16.2	✓	

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Sample ID	Chromium Suite	On Hold
207-16.2-16.45	✓	
207-17-17.45	✓	
207-18.5-18.89		✓
207-20-20.38	✓	
208-1.8-2		✓
208-2.3-2.5	✓	
208-2.8-3		✓
208-3.3-3.5		✓
208-3.8-4		✓
208-4.3-4.5	✓	
208-4.8-5		✓
208-5.3-5.5		✓
208-6.5-6.95	✓	
208-7.5-7.95	✓	
208-8.5-8.95	✓	
208-10.5-10.75		✓
208-11.5-11.8	✓	
208-12.5-12.85	✓	
208-13.6-13.95		✓
208-14.5-14.85		✓
208-15.5-15.95	✓	
208-17-17.95	✓	
208-18.5-18.95	✓	
208-13.5-13.5	✓	

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 332989

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.02, Banksmeadow**
Number of Samples	64 Soil
Date samples received	13/09/2023
Date completed instructions received	13/09/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	15/09/2023
Date of Issue	15/09/2023

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Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

sPOCAS field test						
Our Reference		332989-1	332989-2	332989-3	332989-4	332989-5
Your Reference	UNITS	201	201	201	201	201
Depth		12-12.3	13-13.3	14-14.45	15-15.25	16-16.15
Date Sampled		6/09/23	6/09/23	6/09/23	6/09/23	6/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	5.2	5.8	5.9	6.3	6.4
pH_{FOX} (field peroxide test)	pH Units	1.9	2.0	1.9	3.1	3.3
Reaction Rate*	-	High reaction	Medium reaction	Extreme reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-6	332989-7	332989-8	332989-9	332989-10
Your Reference	UNITS	205	205	205	205	205
Depth		8-8.3	9-9.3	10-10.45	11-11.3	12-12.3
Date Sampled		7/09/23	7/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	5.6	6.1	6.0	5.6	6.2
pH_{FOX} (field peroxide test)	pH Units	1.8	2.6	2.6	2.8	2.5
Reaction Rate*	-	Medium reaction	High reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-11	332989-12	332989-13	332989-14	332989-15
Your Reference	UNITS	205	205	205	205	205
Depth		13-13.45	14-14.3	15-15.45	16-16.45	17-17.45
Date Sampled		7/09/23	7/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	5.4	5.9	5.9	5.5	5.5
pH_{FOX} (field peroxide test)	pH Units	2.7	1.8	1.8	1.7	2.0
Reaction Rate*	-	High reaction	Extreme reaction	High reaction	Volcanic reaction	Extreme reaction

sPOCAS field test						
Our Reference		332989-16	332989-17	332989-18	332989-19	332989-20
Your Reference	UNITS	206	206	206	206	206
Depth		0.5-0.7	1-1.45	1.5-1.7	2-2.2	2.5-2.95
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	5.1	5.2	5.4	5.2	5.4
pH_{FOX} (field peroxide test)	pH Units	4.5	4.4	4.5	4.6	4.8
Reaction Rate*	-	Medium reaction	Medium reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-21	332989-22	332989-23	332989-24	332989-25
Your Reference	UNITS	206	206	206	206	206
Depth		3-3.2	3.5-3.7	4-4.45	5-5.2	5.5-5.95
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	5.3	5.3	6.0	6.3	6.5
pH_{FOX} (field peroxide test)	pH Units	4.7	4.8	5.0	5.4	5.2
Reaction Rate*	-	Medium reaction	Medium reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-26	332989-27	332989-28	332989-29	332989-30
Your Reference	UNITS	206	206	206	206	206
Depth		6.5-6.95	8-8.35	8.35-8.45	9.5-9.8	11-11.45
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.6	6.7	6.6	6.6	6.3
pH_{FOX} (field peroxide test)	pH Units	5.3	4.5	2.9	2.8	2.4
Reaction Rate*	-	Medium reaction	Medium reaction	Extreme reaction	Medium reaction	High reaction

sPOCAS field test						
Our Reference		332989-31	332989-32	332989-33	332989-34	332989-35
Your Reference	UNITS	206	206	206	206	206
Depth		12.5-12.73	14-14.45	15-15.45	16.5-16.95	18-18.3
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.0	5.9	5.9	5.3	5.9
pH_{FOX} (field peroxide test)	pH Units	2.3	3.6	2.8	2.8	1.4
Reaction Rate*	-	High reaction	Medium reaction	High reaction	Medium reaction	Extreme reaction

sPOCAS field test						
Our Reference		332989-36	332989-37	332989-38	332989-39	332989-40
Your Reference	UNITS	206	209	209	209	209
Depth		19.5-19.88	6.5-6.95	8-8.3	9-9.45	10-10.45
Date Sampled		8/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.5	6.5	6.0	6.7	6.6
pH_{FOX} (field peroxide test)	pH Units	3.5	4.5	3.4	2.8	2.6
Reaction Rate*	-	Medium reaction	Medium reaction	Medium reaction	High reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-41	332989-42	332989-43	332989-44	332989-45
Your Reference	UNITS	209	209	209	209	209
Depth		11-11.3	12-12.45	13-13.45	14-14.3	15-15.2
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.5	6.7	6.6	6.5	7.1
pH_{FOX} (field peroxide test)	pH Units	2.4	2.7	5.0	4.8	3.7
Reaction Rate*	-	Medium reaction	Medium reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-46	332989-47	332989-48	332989-49	332989-50
Your Reference	UNITS	209	209	209	209	210
Depth		15.2-15.45	16.5-16.73	18-18.25	19.5-19.95	7-7.45
Date Sampled		11/09/23	11/09/23	11/09/23	11/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	7.0	6.6	6.7	6.6	6.9
pH_{FOX} (field peroxide test)	pH Units	3.1	4.6	4.8	4.7	2.4
Reaction Rate*	-	Medium reaction	Medium reaction	Medium reaction	High reaction	Volcanic reaction

sPOCAS field test						
Our Reference		332989-51	332989-52	332989-53	332989-54	332989-55
Your Reference	UNITS	210	210	210	210	210
Depth		8.5-8.95	9.5-9.95	10.5-10.8	11.5-11.95	12.5-12.8
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.8	6.6	6.8	6.7	6.8
pH_{FOX} (field peroxide test)	pH Units	3.3	2.1	3.3	4.5	4.2
Reaction Rate*	-	Volcanic reaction	High reaction	Medium reaction	Medium reaction	Medium reaction

sPOCAS field test						
Our Reference		332989-56	332989-57	332989-58	332989-59	332989-60
Your Reference	UNITS	210	210	210	210	210
Depth		13.6-13.6	13.6-13.95	14.5-14.73	15.5-15.72	16.5-16.77
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.9	6.0	6.7	6.5	6.6
pH_{FOX} (field peroxide test)	pH Units	4.6	3.0	3.1	4.2	4.0
Reaction Rate*	-	Medium reaction	Extreme reaction	High reaction	Medium reaction	Medium reaction

sPOCAS field test					
Our Reference		332989-61	332989-62	332989-63	332989-64
Your Reference	UNITS	210	210	210	206
Depth		18-18.2	18.2-18.41	19.5-19.74	4.5-4.7
Date Sampled		12/09/23	12/09/23	12/09/23	08/09/2023
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023
Date analysed	-	15/09/2023	15/09/2023	15/09/2023	15/09/2023
pH_F (field pH test)	pH Units	6.4	6.9	6.5	6.5
pH_{FOX} (field peroxide test)	pH Units	2.8	2.0	4.5	5.1
Reaction Rate*	-	High reaction	Extreme reaction	Medium reaction	Medium reaction

Method ID	Methodology Summary
Inorg-063	pH- measured using pH meter and electrode. Soil is oxidised with Hydrogen Peroxide or extracted with water. To ensure accurate results these tests are recommended to be done in the field as pH may change with time thus these results may not be representative of true field conditions.

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			15/09/2023	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			15/09/2023	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sPOCAS field test						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	15/09/2023	[NT]
pH_F (field pH test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
pH_{FOX} (field peroxide test)	pH Units		Inorg-063	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
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customerservice@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.02, Banksmeadow
Envirolab Reference	332989
Date Sample Received	13/09/2023
Date Instructions Received	13/09/2023
Date Results Expected to be Reported	15/09/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	64 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	1
Cooling Method	Ice
Sampling Date Provided	YES

Comments

ASS Screen is a field test

Missing - 205/18.5-18.8
Extra - 206/4.5-4.7

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	sPOCAS field test
201-12-12.3	✓
201-13-13.3	✓
201-14-14.45	✓
201-15-15.25	✓
201-16-16.15	✓
205-8-8.3	✓
205-9-9.3	✓
205-10-10.45	✓
205-11-11.3	✓
205-12-12.3	✓
205-13-13.45	✓
205-14-14.3	✓
205-15-15.45	✓
205-16-16.45	✓
205-17-17.45	✓
206-0.5-0.7	✓
206-1-1.45	✓
206-1.5-1.7	✓
206-2-2.2	✓
206-2.5-2.95	✓
206-3-3.2	✓
206-3.5-3.7	✓
206-4-4.45	✓
206-5-5.2	✓
206-5.5-5.95	✓
206-6.5-6.95	✓
206-8-8.35	✓
206-8.35-8.45	✓
206-9.5-9.8	✓
206-11-11.45	✓
206-12.5-12.73	✓
206-14-14.45	✓

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Sample ID	sPOCAS field test
206-15-15.45	✓
206-16.5-16.95	✓
206-18-18.3	✓
206-19.5-19.88	✓
209-6.5-6.95	✓
209-8-8.3	✓
209-9-9.45	✓
209-10-10.45	✓
209-11-11.3	✓
209-12-12.45	✓
209-13-13.45	✓
209-14-14.3	✓
209-15-15.2	✓
209-15.2-15.45	✓
209-16.5-16.73	✓
209-18-18.25	✓
209-19.5-19.95	✓
210-7-7.45	✓
210-8.5-8.95	✓
210-9.5-9.95	✓
210-10.5-10.8	✓
210-11.5-11.95	✓
210-12.5-12.8	✓
210-13.6-13.6	✓
210-13.6-13.95	✓
210-14.5-14.73	✓
210-15.5-15.72	✓
210-16.5-16.77	✓
210-18-18.2	✓
210-18.2-18.41	✓
210-19.5-19.74	✓
206-4.5-4.7	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

COC 1319 19:24.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**	ELS Quote No: 23SY225	**Sampler:**	ZW/JS		12 Ashley St, Chatswood NSW 2067
Email:	david.holden@douglaspartners.com.au					**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day						(02) 9910 6200 samplereceipt@envirolab.com.au
Prior Storage:	☐ Fridge ☑ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☐ No ☐ Yes	(If YES, then handle, transport and store in accordance with FPM HAZID)			

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass B-bag	Analytes: ASS Screening										Notes/ Preservation/ Additional Requirements
1	201	12	12.3	6-09-23	S	B	x										
2	201	13	13.3	6-09-23	S	B	x										
3	201	14	14.45	6-09-23	S	B	x										
4	201	15	15.25	6-09-23	S	B	x										
5	201	16	16.15	6-09-23	S	B	x										
6	205	8	8.3	7-09-23	S	B	x										
7	205	9	9.3	7-09-23	S	B	x										
8	205	10	10.45	7-09-23	S	B	x										
9	205	11	11.3	7-09-23	S	B	x										
10	205	12	12.3	7-09-23	S	B	x										
11	205	13	13.45	7-09-23	S	B	x										
12	205	14	14.3	7-09-23	S	B	x										
13	205	15	15.45	7-09-23	S	B	x										
14	205	16	16.45	7-09-23	S	B	x										332989

Metals to analyse:		**LAB RECEIPT**	
Number of samples in container:	**Transported to laboratory by:** Courrier	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd	**Received by:**	ELS
Address:	96 Hermitage Rd, West Ryde, 2114	**Date & Time:**	13-9-23 1520
Relinquished by:	ZW, 11am, 13/9/23 **Phone:** **Date:** 13-09-23 **Signed:**	**Signed:**	

Douglas Partners
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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 13-09-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass B-bag	Analytes: ASS Screening										Notes/ Preservation/ Additional Requirements
15	205	17	17.45	7-09-23	S	B	x										
—	205	18.5	18.8	7-09-23	S	B	x										
16	206	0.5	0.7	8-09-23	S	B	x										
17	206	1	1.45	8-09-23	S	B	x										
18	206	1.5	1.7	8-09-23	S	B	x										
19	206	2	2.2	8-09-23	S	B	x										
20	206	2.5	2.95	8-09-23	S	B	x										
21	206	3	3.2	8-09-23	S	B	x										
22	206	3.5	3.7	8-09-23	S	B	x										
23	206	4	4.45	8-09-23	S	B	x										
24	206	5	5.2	8-09-23	S	B	x										
25	206	5.5	5.95	8-09-23	S	B	x										
26	206	6.5	6.95	8-09-23	S	B	x										
27	206	8	8.35	8-09-23	S	B	x										
28	206	8.35	8.45	8-09-23	S	B	x										
29	206	9.5	9.8	8-09-23	S	B	x										
30	206	11	11.45	8-09-23	S	B	x										332989
31	206	12.5	12.73	8-09-23	S	B	x										⟵

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:** Banksmeadow	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 13-09-23

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass B-bag	Analytes: ASS Screening										Notes/ Preservation/ Additional Requirements
32	206	14	14.45	8-09-23	S	B	x										
33	206	15	15.45	8-09-23	S	B	x										
34	206	16.5	16.95	8-09-23	S	B	x										
35	206	18	18.3	8-09-23	S	B	x										
36	206	19.5	19.88	8-09-23	S	B	x										
37	209	6.5	6.95	11-09-23	S	B	x										
38	209	8	8.3	11-09-23	S	B	x										
39	209	9	9.45	11-09-23	S	B	x										
40	209	10	10.45	11-09-23	S	B	x										
41	209	11	11.3	11-09-23	S	B	x										
42	209	12	12.45	11-09-23	S	B	x										
43	209	13	13.45	11-09-23	S	B	x										
44	209	14	14.3	11-09-23	S	B	x										
45	209	15	15.2	11-09-23	S	B	x										
46	209	15.2	15.45	11-09-23	S	B	x										
47	209	16.5	16.73	11-09-23	S	B	x										
48	209	18	18.25	11-09-23	S	B	x										
49	209	19.5	19.95	11-09-23	S	B	x										332989
50	210	7	7.45	12-09-23	S	B	x										

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CHAIN OF CUSTODY DESPATCH SHEET

Project No:	219609.02	**Suburb:**	Banksmeadow	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	13-09-23

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - glass B-bag	Analytes: ASS Screening										Notes/ Preservation/ Additional Requirements
S1	210	8.5	8.95	12-09-23	S	B	x										
S2	210	9.5	9.95	12-09-23	S	B	x										
S3	210	10.5	10.8	12-09-23	S	B	x										
S4	210	11.5	11.95	12-09-23	S	B	x										
S5	210	12.5	12.8	12-09-23	S	B	x										
S6	210	13.6	13.6	12-09-23	S	B	x										
S7	210	13.6	13.95	12-09-23	S	B	x										
S8	210	14.5	14.73	12-09-23	S	B	x										
S9	210	15.5	15.72	12-09-23	S	B	x										
60	210	16.5	16.77	12-09-23	S	B	x										
61	210	18	18.2	12-09-23	S	B	x										
62	210	18.2	18.41	12-09-23	S	B	x										
63	210	19.5	19.74	12-09-23	S	B	x										
64	206	4.5	4.7.														
																	332989
																	2

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CERTIFICATE OF ANALYSIS 332989-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**219609.02, Banksmeadow**
Number of Samples	Additional analysis
Date samples received	13/09/2023
Date completed instructions received	15/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	22/11/2023
Date of Issue	22/11/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Nick Sarlamis, Assistant Operation Manager

Authorised By
Nancy Zhang, Laboratory Manager

Chromium Suite						
Our Reference		332989-A-1	332989-A-2	332989-A-3	332989-A-4	332989-A-6
Your Reference	UNITS	201	201	201	201	205
Depth		12-12.3	13-13.3	14-14.45	15-15.25	8-8.3
Date Sampled		6/09/23	6/09/23	6/09/23	6/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.5	4.7	5.1	5.5	5.3
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.03	0.03	0.008	0.06	0.01
a-Chromium Reducible Sulfur	moles H^+ /t	20	19	5	34	8
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.037	0.032	0.0090	0.055	0.014
a-Net Acidity	moles H^+ /t	23	20	5.8	34	8.5
Liming rate	kg $CaCO_3$ /t	2	1	<0.75	3	<0.75
a-Net Acidity without ANCE	moles H^+ /t	23	20	5.8	34	8.5
Liming rate without ANCE	kg $CaCO_3$ /t	1.7	1.5	<0.75	2.6	<0.75
s-Net Acidity without ANCE	%w/w S	0.037	0.032	0.0090	0.055	0.014

Chromium Suite						
Our Reference		332989-A-8	332989-A-10	332989-A-12	332989-A-14	332989-A-15
Your Reference	UNITS	205	205	205	205	205
Depth		10-10.45	12-12.3	14-14.3	16-16.45	17-17.45
Date Sampled		7/09/23	7/09/23	7/09/23	7/09/23	7/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.7	5.1	5.1	4.7	4.5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	5
Chromium Reducible Sulfur	%w/w	0.02	0.01	0.008	0.02	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	10	8	5	11	12
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.019	0.015	0.010	0.019	0.028
a-Net Acidity	moles H^+ /t	12	9.2	6.2	12	18
Liming rate	kg $CaCO_3$ /t	0.9	<0.75	<0.75	0.9	1
a-Net Acidity without ANCE	moles H^+ /t	12	9.2	6.2	12	18
Liming rate without ANCE	kg $CaCO_3$ /t	0.90	<0.75	<0.75	0.90	1.3
s-Net Acidity without ANCE	%w/w S	0.019	0.015	0.010	0.019	0.028

Chromium Suite						
Our Reference		332989-A-17	332989-A-21	332989-A-25	332989-A-27	332989-A-28
Your Reference	UNITS	206	206	206	206	206
Depth		1-1.45	3-3.2	5.5-5.95	8-8.35	8.35-8.45
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.4	5.3	6.0	5.8	4.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	6
Chromium Reducible Sulfur	%w/w	<0.005	<0.005	<0.005	0.005	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	<3	<3	<3	3	12
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	<0.005	<0.005	<0.005	0.0050	0.028
a-Net Acidity	moles H^+ /t	<5	<5	<5	<5	17
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	1
a-Net Acidity without ANCE	moles H^+ /t	<5	<5	<5	<5	17
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	1.3
s-Net Acidity without ANCE	%w/w S	<0.005	<0.005	<0.005	0.0050	0.028

Chromium Suite						
Our Reference		332989-A-29	332989-A-30	332989-A-31	332989-A-33	332989-A-34
Your Reference	UNITS	206	206	206	206	206
Depth		9.5-9.8	11-11.45	12.5-12.73	15-15.45	16.5-16.95
Date Sampled		8/09/23	8/09/23	8/09/23	8/09/23	8/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.1	4.9	5.2	5.1	4.5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	0.03
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	18
Chromium Reducible Sulfur	%w/w	0.01	0.009	0.008	0.01	0.09
a-Chromium Reducible Sulfur	moles H^+ /t	6	6	5	6	56
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.011	0.011	0.0090	0.010	0.12
a-Net Acidity	moles H^+ /t	7.0	6.8	5.5	6.5	74
Liming rate	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	6
a-Net Acidity without ANCE	moles H^+ /t	7.0	6.8	5.5	6.5	74
Liming rate without ANCE	kg $CaCO_3$ /t	<0.75	<0.75	<0.75	<0.75	5.6
s-Net Acidity without ANCE	%w/w S	0.011	0.011	0.0090	0.010	0.12

Chromium Suite						
Our Reference		332989-A-35	332989-A-36	332989-A-37	332989-A-39	332989-A-42
Your Reference	UNITS	206	206	209	209	209
Depth		18-18.3	19.5-19.88	6.5-6.95	9-9.45	12-12.45
Date Sampled		8/09/23	8/09/23	11/09/23	11/09/23	11/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.2	5.4	6.3	5.0	5.2
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.03	<0.005	0.005	0.05	0.03
a-Chromium Reducible Sulfur	moles H^+ /t	16	<3	3	29	16
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.026	<0.005	0.0050	0.048	0.026
a-Net Acidity	moles H^+ /t	16	<5	<5	30	16
Liming rate	kg $CaCO_3$ /t	1	<0.75	<0.75	2	1
a-Net Acidity without ANCE	moles H^+ /t	16	<5	<5	30	16
Liming rate without ANCE	kg $CaCO_3$ /t	1.2	<0.75	<0.75	2.3	1.2
s-Net Acidity without ANCE	%w/w S	0.026	<0.005	0.0050	0.048	0.026

Chromium Suite						
Our Reference		332989-A-45	332989-A-48	332989-A-49	332989-A-50	332989-A-51
Your Reference	UNITS	209	209	209	210	210
Depth		15-15.2	18-18.25	19.5-19.95	7-7.45	8.5-8.95
Date Sampled		11/09/23	11/09/23	11/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	4.9	5.9	5.8	6.4	5.3
s-TAA pH 6.5	%w/w S	0.02	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	10	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.09	<0.005	0.006	0.01	0.02
a-Chromium Reducible Sulfur	moles H^+ /t	58	<3	4	7	11
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.11	<0.005	0.0060	0.011	0.018
a-Net Acidity	moles H^+ /t	69	<5	<5	6.8	12
Liming rate	kg $CaCO_3$ /t	5	<0.75	<0.75	<0.75	0.9
a-Net Acidity without ANCE	moles H^+ /t	69	<5	<5	6.8	12
Liming rate without ANCE	kg $CaCO_3$ /t	5.2	<0.75	<0.75	<0.75	0.86
s-Net Acidity without ANCE	%w/w S	0.11	<0.005	0.0060	0.011	0.018

Chromium Suite						
Our Reference		332989-A-52	332989-A-55	332989-A-57	332989-A-58	332989-A-60
Your Reference	UNITS	210	210	210	210	210
Depth		9.5-9.95	12.5-12.8	13.6-13.95	14.5-14.73	16.5-16.77
Date Sampled		12/09/23	12/09/23	12/09/23	12/09/23	12/09/23
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	13/09/2023	13/09/2023	13/09/2023	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023	16/11/2023	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.0	5.5	4.6	5.7	5.8
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5	<5	<5	<5
Chromium Reducible Sulfur	%w/w	0.06	<0.005	<0.005	<0.005	0.01
a-Chromium Reducible Sulfur	moles H^+ /t	38	<3	<3	<3	6
S_{HCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]	[NT]	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]	[NT]	[NT]	[NT]
s-Net Acidity	%w/w S	0.062	<0.005	0.0070	<0.005	0.010
a-Net Acidity	moles H^+ /t	39	<5	<5	<5	6.2
Liming rate	kg $CaCO_3$ /t	3	<0.75	<0.75	<0.75	<0.75
a-Net Acidity without ANCE	moles H^+ /t	39	<5	<5	<5	6.2
Liming rate without ANCE	kg $CaCO_3$ /t	2.9	<0.75	<0.75	<0.75	<0.75
s-Net Acidity without ANCE	%w/w S	0.062	<0.005	0.0070	<0.005	0.010

Chromium Suite			
Our Reference		332989-A-62	332989-A-63
Your Reference	UNITS	210	210
Depth		18.2-18.41	19.5-19.74
Date Sampled		12/09/23	12/09/23
Type of sample		Soil	Soil
Date prepared	-	13/09/2023	13/09/2023
Date analysed	-	16/11/2023	16/11/2023
pH $_{kcl}$	pH units	5.1	5.6
s-TAA pH 6.5	%w/w S	<0.01	<0.01
TAA pH 6.5	moles H^+ /t	<5	<5
Chromium Reducible Sulfur	%w/w	0.01	0.008
a-Chromium Reducible Sulfur	moles H^+ /t	9	5
S_{HCl}	%w/w S	[NT]	[NT]
S_{KCl}	%w/w S	[NT]	[NT]
S_{NAS}	%w/w S	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	[NT]	[NT]
s-ANC_{BT}	%w/w S	[NT]	[NT]
s-Net Acidity	%w/w S	0.016	0.0080
a-Net Acidity	moles H^+ /t	10	5.2
Liming rate	kg $CaCO_3$ /t	0.8	<0.75
a-Net Acidity without ANCE	moles H^+ /t	10	5.2
Liming rate without ANCE	kg $CaCO_3$ /t	0.77	<0.75
s-Net Acidity without ANCE	%w/w S	0.016	0.0080

Method ID	Methodology Summary
Inorg-068	Chromium Reducible Sulfur - Hydrogen Sulfide is quantified by iodometric titration after distillation to determine potential acidity. Net acidity including ANC has a safety factor of 1.5 applied. Neutralising value (NV) of 100% is assumed for liming rate. The recommendation that the SHCL concentration be multiplied by a factor of 2 to ensure retained acidity is not underestimated, has not been applied in the SHCL result. However, it has been applied in the SNAS calculation: SNAS % = (SHCL-SKCL)x2

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			13/09/2023	1	13/09/2023	13/09/2023		13/09/2023	[NT]
Date analysed	-			16/11/2023	1	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	1	4.5	4.5	0	97	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	<0.01	1	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	<5	1	<5	<5	0	97	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	<0.005	1	0.03	0.03	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	<3	1	20	19	5	[NT]	[NT]
S_{HCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{KCl}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
S_{NAS}	%w/w S	0.005	Inorg-068	<0.005	1	[NT]	[NT]		[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	<0.05	1	[NT]	[NT]		100	[NT]
s-ANC_{BT}	%w/w S	0.05	Inorg-068	<0.05	1	[NT]	[NT]		[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	<0.005	1	0.037	0.035	6	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	<5	1	23	22	4	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	2	2	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	<5	1	23	22	4	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	<0.75	1	1.7	1.7	0	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	<0.005	1	0.037	0.035	6	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	15	13/09/2023	13/09/2023		13/09/2023	[NT]
Date analysed	-			[NT]	15	16/11/2023	16/11/2023		16/11/2023	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	15	4.5	4.5	0	98	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	15	<0.01	0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	15	5	6	18	96	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	15	0.02	0.02	0	98	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	15	12	13	8	[NT]	[NT]
ANC_{BT}	% $CaCO_3$	0.05	Inorg-068	[NT]	15	[NT]	[NT]		100	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	15	0.028	0.030	7	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	15	18	19	5	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	15	1	1	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	15	18	19	5	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	15	1.3	1.4	7	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	15	0.028	0.030	7	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	34	13/09/2023	13/09/2023		[NT]	[NT]
Date analysed	-			[NT]	34	16/11/2023	16/11/2023		[NT]	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	34	4.5	4.5	0	[NT]	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	34	0.03	0.03	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	34	18	20	11	[NT]	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	34	0.09	0.09	0	[NT]	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	34	56	56	0	[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	34	0.12	0.12	0	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	34	74	76	3	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	34	6	6	0	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	34	74	76	3	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	34	5.6	5.7	2	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	34	0.12	0.12	0	[NT]	[NT]

QUALITY CONTROL: Chromium Suite						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	51	13/09/2023	13/09/2023		[NT]	[NT]
Date analysed	-			[NT]	51	16/11/2023	16/11/2023		[NT]	[NT]
pH $_{kcl}$	pH units		Inorg-068	[NT]	51	5.3	5.4	2	[NT]	[NT]
s-TAA pH 6.5	%w/w S	0.01	Inorg-068	[NT]	51	<0.01	<0.01	0	[NT]	[NT]
TAA pH 6.5	moles H^+ /t	5	Inorg-068	[NT]	51	<5	<5	0	[NT]	[NT]
Chromium Reducible Sulfur	%w/w	0.005	Inorg-068	[NT]	51	0.02	0.02	0	[NT]	[NT]
a-Chromium Reducible Sulfur	moles H^+ /t	3	Inorg-068	[NT]	51	11	11	0	[NT]	[NT]
s-Net Acidity	%w/w S	0.005	Inorg-068	[NT]	51	0.018	0.018	0	[NT]	[NT]
a-Net Acidity	moles H^+ /t	5	Inorg-068	[NT]	51	12	11	9	[NT]	[NT]
Liming rate	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	51	0.9	0.8	12	[NT]	[NT]
a-Net Acidity without ANCE	moles H^+ /t	5	Inorg-068	[NT]	51	12	11	9	[NT]	[NT]
Liming rate without ANCE	kg $CaCO_3$ /t	0.75	Inorg-068	[NT]	51	0.86	0.85	1	[NT]	[NT]
s-Net Acidity without ANCE	%w/w S	0.005	Inorg-068	[NT]	51	0.018	0.018	0	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Samples received in good order: Holding time exceedance

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	219609.02, Banksmeadow
Envirolab Reference	332989-A
Date Sample Received	13/09/2023
Date Instructions Received	15/11/2023
Date Results Expected to be Reported	22/11/2023

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	1
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Chromium Suite	On Hold
201-12-12.3	✓	
201-13-13.3	✓	
201-14-14.45	✓	
201-15-15.25	✓	
201-16-16.15		✓
205-8-8.3	✓	
205-9-9.3		✓
205-10-10.45	✓	
205-11-11.3		✓
205-12-12.3	✓	
205-13-13.45		✓
205-14-14.3	✓	
205-15-15.45		✓
205-16-16.45	✓	
205-17-17.45	✓	
206-0.5-0.7		✓
206-1-1.45	✓	
206-1.5-1.7		✓
206-2-2.2		✓
206-2.5-2.95		✓
206-3-3.2	✓	
206-3.5-3.7		✓
206-4-4.45		✓
206-5-5.2		✓
206-5.5-5.95	✓	
206-6.5-6.95		✓
206-8-8.35	✓	
206-8.35-8.45	✓	
206-9.5-9.8	✓	
206-11-11.45	✓	
206-12.5-12.73	✓	
206-14-14.45		✓

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Sample ID	Chromium Suite	On Hold
206-15-15.45	✓	
206-16.5-16.95	✓	
206-18-18.3	✓	
206-19.5-19.88	✓	
209-6.5-6.95	✓	
209-8-8.3		✓
209-9-9.45	✓	
209-10-10.45		✓
209-11-11.3		✓
209-12-12.45	✓	
209-13-13.45		✓
209-14-14.3		✓
209-15-15.2	✓	
209-15.2-15.45		✓
209-16.5-16.73		✓
209-18-18.25	✓	
209-19.5-19.95	✓	
210-7-7.45	✓	
210-8.5-8.95	✓	
210-9.5-9.95	✓	
210-10.5-10.8		✓
210-11.5-11.95		✓
210-12.5-12.8	✓	
210-13.6-13.6		✓
210-13.6-13.95	✓	
210-14.5-14.73	✓	
210-15.5-15.72		✓
210-16.5-16.77	✓	
210-18-18.2		✓
210-18.2-18.41	✓	
210-19.5-19.74	✓	
206-4.5-4.7		✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

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Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix L

Quality Assurance and Quality Control

1. Field and Laboratory Data Quality Assurance and Quality Control

The field and laboratory data quality assurance and quality control (QA / QC) procedures and results are summarised in the following Table 1. Reference should be made to the field work methodology and the laboratory results / certificates of analysis for further details. The relative percentage difference (RPD) results, along with the other field QC samples are included in the summary results tables at the end of this appendix.

Table 1: Field and Laboratory Quality Control

Item	Evaluation / Acceptance Criteria	Compliance
Analytical laboratories used	NATA accreditation	C
Holding times	Various based on type of analysis	PC
Intra-laboratory replicates	5% of primary samples; <30-50% RPD	C PC
Inter-laboratory replicates	5% of primary samples; <30-50% RPD	PC PC
Trip Spikes	1 per sampling event; 60-140% recovery	C
Trip Blanks	1 per sampling event; <LRL	C
Rinsates	1 per soil sampling event; <LRL	C
Soil vapour cannister vacuum integrity	+/- 3 Hg" of laboratory measured pressures prior to sampling and analysis	C
Soil vapour shut-in tests	Acceptable vacuum held for minimum (30 sec) duration at each sampling duration	C
Soil vapour shroud test	1 per sampling event; All samples <1% of laboratory analysed shroud sample.	C
Laboratory / Reagent Blanks	1 per batch; <LRL	C
Laboratory Duplicate	1 per lab batch; As laboratory certificate	C
Matrix Spikes	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Surrogate Spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Control Samples	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Standard Operating Procedures (SOP)	Adopting SOP for all aspects of the sampling field work	C

Notes: LRL = laboratory reporting limit; C = compliance; PC = partial compliance; NC = non-compliance

Whilst analysis within recommended holding times was achieved for primary analysis on samples from the boreholes, some supplementary analysis undertaken on soil samples following review of the initial results to further inform the investigation were outside of holding times. Accordingly, this partial non-compliance was not considered significant in the context of the overall analysis program and that the primary analysis had already been undertaken.

With respect to the partial non-conformance of the 5% inter-laboratory replicate analysis rate, for soil this represented an analysis rate of 3.95% (19 samples). Noting the overall replicate analysis rate for soils of 9.56% (46 samples), and given the size of the dataset, this partial non-conformance was not considered to be of significant concern. Due to the small sample size of the soil vapour analysis (10 primary soils), one intra-laboratory replicate analysis for this media was considered sufficient. Additionally, it is noted that the groundwater inter-laboratory replicate analysis rate was 9.26% (five samples), was above the 5% criteria, with an overall groundwater replicate analysis rate of 16.67% (nine samples) .

The RPD results were all within the acceptable range, with the exception of those indicated in Tables L1, L2 and L3. The exceedances are not, however, considered to be of concern given that:

- The low actual differences in the concentrations of the replicate pairs where some RPD exceedances occurred;
- Soil replicates, rather than homogenised duplicates, were used to minimise risk of volatile loss, hence greater variability can be expected;
- Most of the recorded concentrations being relatively close to the LRL. RPD's are not considered significant where concentrations were less than 5-10 times the LRL;
- The majority of RPDs within a replicate pair being within the acceptable limits; and
- All other QA / QC parameters met the data quality indicators (DQIs).

Trip spike and trip blank samples were taken into the field during sampling. Spikes (Tables L4 and L5) recorded acceptable recovery (near 100%) whilst all results for the trip blank (Tables L6 and L7) were below LRL. Additionally, the rinsates collected from the soil and groundwater sampling equipment (Table L8) recorded results below the LRL indicating acceptable decontamination practices were implemented.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

2. Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following DQI as outlined in National Environment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, 2013, NEPC (2013).

- Completeness: A measure of the amount of usable data from a data collection activity;
- Comparability: The confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness: The confidence (qualitative) of data representativeness of media present on-site;

- Precision: A measure of variability or reproducibility of data; and
- Accuracy: A measure of closeness of the data to the 'true' value.

Table 2: Data Quality Indicators

Data Quality Indicator	Method(s) of Achievement
Completeness	Target locations sampled.
	Preparation of borehole logs, sample location plan, field records sheets, and chain of custody (COC) records.
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the chain of custody.
	Completion of COC documentation.
	NATA accredited laboratory results certificates provided by the laboratory.
	Satisfactory frequency and results for field and laboratory quality control (QC) samples as discussed in Section 1 above.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project.
	Experienced samplers used.
	Use of NATA registered laboratories, with test methods the same or similar between laboratories.
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled.
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with data quality objectives.
	Samples were extracted and analysed within holding times.
	Samples were analysed in accordance with the COC.
Precision	Field staff followed standard operating procedures.
	Acceptable RPD between original samples and replicates.
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Field staff followed Douglas Partners Pty Ltd standard operating procedures.
	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQI have been generally complied with.

3. Conclusion

Based on the results of the field QA and field and laboratory QC, and evaluation against the DQI it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

Table L1 - QA/QC: Field Replicate Results - Soil

			TRH												BTEX								PAH								
			C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			10	10	50	50	100	100	50	10	50	100	100	50	1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.05	0.5	0.1	0.5
Sample ID	**Sample Depth**	**Date**																													
Intra-laboratory Replicates																															
202	**0.5-0.7m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230901	**0.5-0.7m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
202	**0.8-1.0m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230901	**0.8-1.0m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
202	**1.5-1.7m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230901	**1.5-1.7m**	**01 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
204	**1.5-1.7m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230904	**1.5-1.7m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
204	**2.0-2.2m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230904	**2.0-2.2m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
204	**4.5-4.7m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230904	**4.5-4.7m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
204	**5.0-5.2m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD4/20230904	**5.0-5.2m**	**04 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
204	**17.0-17.45m**	**04 Sep 2023**	<25	<25	<150	<150	**960**	**490**	**1,400**	<25	<150	<300	**940**	**940**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.6	<0.3	<0.3	<0.3	<0.3	<0.15	-	<0.3	-
BD5/20230904	**17.0-17.45m**	**04 Sep 2023**	<25	<25	<150	<150	**360**	<300	**360**	<25	<150	<300	**360**	**360**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.6	<0.3	<0.3	<0.3	<0.3	<0.2	-	<0.3	-
RPD			0	0	0	0	**91**	**48**	**118**	0	0	0	**89**	**89**	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
203	**5.0-5.2m**	**05 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD4/20230905	**5.0-5.2m**	**05 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
206	**0.5-0.7m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230908	**0.5-0.7m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
206	**1.5-1.7m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230908	**1.5-1.7m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
206	**2.0-2.2m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD3/20230908	**2.0-2.2m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
206	**5.0-5.2m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD4/20230908	**5.0-5.2m**	**08 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
208	**2.3-2.5m**	**30 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230830	**2.3-2.5m**	**30 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
210	**4.0-4.2m**	**12 Sep 2023**	<25	<25	**180**	**160**	**960**	**250**	**1,400**	<25	**140**	**670**	**430**	**1,200**	**24**	<0.2	<0.5	<1	<2	<1	<1	-	**2.4**	**0.6**	<0.1	**1.9**	**2.2**	**0.68**	-	**0.2**	-
BD4/20230912	**4.0-4.2m**	**12 Sep 2023**	<25	<25	**230**	**210**	**990**	**180**	**1,400**	<25	**200**	**750**	**390**	**1,300**	**14**	<0.2	<0.5	<1	<2	<1	<1	-	**2**	**0.6**	**0.1**	**1.7**	**1.8**	**0.5**	-	**0.1**	-
RPD			0	0	**24**	**27**	**3**	**33**	0	0	**35**	**11**	**10**	**8**	**53**	0	0	0	0	0	0	-	**18**	0	0	**11**	**20**	**31**	-	**67**	-
307	**6.8-7.0m**	**25 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230825	**6.8-7.0m**	**25 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
310	**5.6-5.8m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD3/20230816	**5.6-5.8m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
312	**4.8-5.0m**	**23 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230823	**4.8-5.0m**	**23 Aug 2023**	<25	<25	<50	<50	**210**	<100	**210**	<25	<50	**200**	<100	**200**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	**71**	0	**123**	0	0	**67**	0	**120**	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
315	**2.8-3.0m**	**11 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230811	**2.8-3.0m**	**11 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
316	**4.8-5.0m**	**22 Aug 2023**	**1,100**	**980**	**3,500**	**3,500**	**19,000**	**150**	**23,000**	**440**	**5,500**	**19,000**	**400**	**25,000**	**6**	<0.2	**1**	**5**	**37**	**33**	**71**	-	<0.2	<0.1	**0.2**	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230822	**4.8-5.0m**	**22 Aug 2023**	**1,000**	**920**	**2,600**	**2,600**	**20,000**	<100	**22,000**	**370**	**4,400**	**20,000**	**240**	**24,000**	**8**	<0.2	**1**	**6**	**46**	**35**	**81**	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			**10**	**6**	**30**	**30**	**5**	**40**	**4**	**17**	**22**	**5**	**50**	**4**	**29**	0	0	**18**	**22**	**6**	**13**	-	0	0	**67**	0	0	0	-	0	-
319	**0.25-0.35m**	**10 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230810	**0.25-0.35m**	**10 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-

Table L1 - QA/QC: Field Replicate Results - Soil

			TRH												BTEX								PAH								
			C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			10	10	50	50	100	100	50	10	50	100	100	50	1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.05	0.5	0.1	0.5
Sample ID	**Sample Depth**	**Date**																													
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
322A	**4.3-4.5m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230816	**4.3-4.5m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
322C	**2.5-2.7m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230816	**2.5-2.7m**	**16 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
325	**4.8-5.0m**	**21 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230821	**4.8-5.0m**	**21 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
335	**4.7-4.9m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD6/20230824	**4.7-4.9m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
337	**7.8-8.0m**	**25 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD4/20230825	**7.8-8.0m**	**25 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
339	**4.8-5.0m**	**28 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230828	**4.8-5.0m**	**28 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	-
Inter-laboratory Replicates																															
203	**0.5-0.7m**	**05 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230905	**0.5-0.7m**	**05 Sep 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
203	**0.8-1.0m**	**05 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230905	**0.8-1.0m**	**05 Sep 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
203	**1.5-1.7m**	**05 Sep 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230905	**1.5-1.7m**	**05 Sep 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
302	**4.8-5.0m**	**17 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD1/20230817	**4.8-5.0m**	**17 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
303	**4.8-5.0m**	**17 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230817	**4.8-5.0m**	**17 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
304	**3.8-4.0m**	**17 Aug 2023**	**1,000**	**910**	**1,300**	**1,300**	<100	<100	**1,300**	**160**	**2,200**	<100	<100	**2,200**	**2**	<0.2	<0.5	**13**	**60**	**13**	**73**	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD3/20230817	**3.8-4.0m**	**17 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			**196**	**196**	**185**	**185**	0	0	**185**	**176**	**191**	0	0	**191**	**67**	0	0	**185**	**197**	**185**	**197**	-	-	-	-	-	-	-	-	-	-
305	**4.8-5.0m**	**22 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230822	**4.8-5.0m**	**22 Aug 2023**	**116**	**116**	**150**	**150**	<100	<100	**150**	**27**	**220**	<100	<100	**220**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			**129**	**129**	**100**	**100**	0	0	**100**	**8**	**126**	0	0	**126**	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
320C	**1.8-2.0m**	**18 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230818	**1.8-2.0m**	**18 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
320D	**1.8-2.0m**	**18 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230818	**1.8-2.0m**	**18 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
323	**3.7-3.9m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230824	**3.7-3.9m**	**24 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
323	**4.7-4.9m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD4/20230824	**4.7-4.9m**	**24 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
324	**1.8-2.0m**	**21 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD2/20230821	**1.8-2.0m**	**21 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
327	**5.8-6.0m**	**18 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230818	**5.8-6.0m**	**18 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
328B	**7.8-8.0m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230824	**7.8-8.0m**	**24 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-

Table L1 - QA/QC: Field Replicate Results - Soil

			TRH											BTEX								PAH								
			C6-C10 Fraction (FI)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			10	10	50	50	100	100	50	10	50	100	100	50	1	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.05	0.5	0.1	0.5
Sample ID	**Sample Depth**	**Date**																													
328C	**7.8-8.0m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD2/20230824	**7.8-8.0m**	**24 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
335	**3.7-3.9m**	**24 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD5/20230824	**3.7-3.9m**	**24 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-
337	**6.8-7.0m**	**25 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230825	**6.8-7.0m**	**25 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
338	**7.8-8.0m**	**25 Aug 2023**	**780**	**690**	**390**	**390**	<100	<100	**390**	**310**	**760**	<100	<100	**760**	**3**	<0.2	<0.5	**9**	**61**	**18**	**79**	-	-	-	-	-	-	-	-	-	-
BD1/20230825	**7.8-8.0m**	**25 Aug 2023**	**70**	**64**	<50	<50	<100	<100	<50	**33**	<50	<100	<100	<50	<1	<0.2	<0.5	**0.6**	**4.4**	**1.4**	**5.8**	**6.4**	-	-	-	-	-	-	-	-	-
RPD			**167**	**166**	**155**	**155**	0	0	**155**	**162**	**175**	0	0	**175**	**100**	0	0	**175**	**173**	**171**	**173**	-	-	-	-	-	-	-	-	-	-
339	**7.8-8.0m**	**28 Aug 2023**	**37**	**37**	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	-	-	-	-	-	-	-	-	-
BD3/20230828	**7.8-8.0m**	**28 Aug 2023**	**73**	**73**	**290**	**290**	<100	<100	**290**	**34**	**500**	<100	<100	**500**	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	-
RPD			**65**	**65**	**141**	**141**	0	0	**141**	**31**	**164**	0	0	**164**	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-
341	**5.8-6.0m**	**28 Aug 2023**	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1	-	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-
BD1/20230828	**5.8-6.0m**	**28 Aug 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	-	0	-

Note:

- Where results were less than five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.
- Table covers main analytes only.

Table L1 - QA/QC: Field Replicate Results - Soil

			PAH											Metals							
			Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of total)	PAHs (Sum of positives)	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.05	4	0.4	1	1	1	0.1	1	1
Sample ID	**Sample Depth**	**Date**																			
Intra-laboratory Replicates																					
202	**0.5-0.7m**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230901	**0.5-0.7m**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	**0.8-1.0m**	**01 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	<1	<1	**2**	<0.1	<1	<1
BD2/20230901	**0.8-1.0m**	**01 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	<1	<1	**2**	<0.1	<1	**1**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
202	**1.5-1.7m**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230901	**1.5-1.7m**	**01 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**1.5-1.7m**	**04 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**8**
BD1/20230904	**1.5-1.7m**	**04 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	**1**	**9**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	**12**
204	**2.0-2.2m**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230904	**2.0-2.2m**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**4.5-4.7m**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230904	**4.5-4.7m**	**04 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	**5.0-5.2m**	**04 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**5**	<1	**17**	<0.1	<1	**8**
BD4/20230904	**5.0-5.2m**	**04 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**3**	<1	**13**	<0.1	<1	**8**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	**50**	0	**27**	0	0	0
204	**17.0-17.45m**	**04 Sep 2023**	<0.3	<0.3	**0.4**	<0.3	<0.3	<0.3	<0.3	<0.3	<1.5	-	**0.4**	<4	<0.4	**5**	**3**	**2**	<0.1	**3**	**2**
BD5/20230904	**17.0-17.45m**	**04 Sep 2023**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.5	-	<0.15	<4	<0.4	**4**	**3**	**3**	<0.1	**3**	**3**
RPD			0	0	**29**	0	0	0	0	0	0	-	**91**	0	0	**22**	0	**40**	0	0	**40**
203	**5.0-5.2m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230905	**5.0-5.2m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**0.5-0.7m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	<1
BD1/20230908	**0.5-0.7m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	**1**	<0.1	<1	**1**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
206	**1.5-1.7m**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230908	**1.5-1.7m**	**08 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	**2.0-2.2m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
BD3/20230908	**2.0-2.2m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
206	**5.0-5.2m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
BD4/20230908	**5.0-5.2m**	**08 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**3**	<1	**1**	<0.1	<1	**2**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	40	0	0	0	0	0
208	**2.3-2.5m**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230830	**2.3-2.5m**	**30 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	**4.0-4.2m**	**12 Sep 2023**	**2.9**	**0.2**	**7.2**	**1.6**	**0.3**	**110**	**9.5**	**4.7**	**1.3**	-	**140**	<4	**0.7**	**1,600**	**66**	**9,900**	**5.9**	**29**	**840**
BD4/20230912	**4.0-4.2m**	**12 Sep 2023**	**2.5**	**0.1**	**6.0**	**1.4**	**0.2**	**92**	**8.2**	**3.6**	**1.0**	-	**120**	**9**	**1**	**1,800**	**100**	**12,000**	**10**	**25**	**1,300**
RPD			**15**	**67**	**18**	**13**	**40**	**18**	**15**	**27**	**26**	-	**15**	**77**	**35**	**12**	**41**	**19**	**52**	**15**	**43**
307	**6.8-7.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230825	**6.8-7.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	**5.6-5.8m**	**16 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**2**
BD3/20230816	**5.6-5.8m**	**16 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	**4.8-5.0m**	**23 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**4**
BD1/20230823	**4.8-5.0m**	**23 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	**0.4**	**2**	<1	**1**	<0.1	**1**	**2**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	**67**
315	**2.8-3.0m**	**11 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**1**
BD1/20230811	**2.8-3.0m**	**11 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**2**	<0.1	<1	**2**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	**67**	0	**67**	0	0	**67**
316	**4.8-5.0m**	**22 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	**3.1**	<0.1	<0.1	<0.5	-	**3.3**	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
BD2/20230822	**4.8-5.0m**	**22 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	**3.2**	<0.1	<0.1	<0.5	-	**3.2**	<4	<0.4	**2**	<1	**1**	<0.1	<1	**3**
RPD			0	0	0	0	0	**3**	0	0	0	-	**3**	0	0	0	0	0	0	0	**40**
319	**0.25-0.35m**	**10 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	**1**	**1**
BD2/20230810	**0.25-0.35m**	**10 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	**1**	<0.1	<1	**1**

Table L1 - QA/QC: Field Replicate Results - Soil

			PAH											Metals							
			Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of total)	PAHs (Sum of positives)	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.05	4	0.4	1	1	1	0.1	1	1
Sample ID	**Sample Depth**	**Date**																			
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	**67**	0	0	0	0	0
322A	**4.3-4.5m**	**16 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**15**
BD1/20230816	**4.3-4.5m**	**16 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	**1**	**13**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	**14**
322C	**2.5-2.7m**	**16 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	<1
BD2/20230816	**2.5-2.7m**	**16 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	<1
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
325	**4.8-5.0m**	**21 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**10**
BD1/20230821	**4.8-5.0m**	**21 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**9**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	**11**
335	**4.7-4.9m**	**24 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**3**
BD6/20230824	**4.7-4.9m**	**24 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**3**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	**67**	0	0	0	0	0
337	**7.8-8.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230825	**7.8-8.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**4.8-5.0m**	**28 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**2**
BD2/20230828	**4.8-5.0m**	**28 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
RPD			0	0	0	0	0	0	0	0	0	-	0	0	0	**67**	0	0	0	0	0
Inter-laboratory Replicates																					
203	**0.5-0.7m**	**05 Sep 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**2**
BD1/20230905	**0.5-0.7m**	**05 Sep 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0
203	**0.8-1.0m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230905	**0.8-1.0m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	**1.5-1.7m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230905	**1.5-1.7m**	**05 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	**4.8-5.0m**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230817	**4.8-5.0m**	**17 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
303	**4.8-5.0m**	**17 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**1**
BD2/20230817	**4.8-5.0m**	**17 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0
304	**3.8-4.0m**	**17 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.7**	<0.1	<0.1	<0.5	-	**1.7**	<4	<0.4	**1**	<1	<1	<0.1	<1	**1**
BD3/20230817	**3.8-4.0m**	**17 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
305	**4.8-5.0m**	**22 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**4**
BD1/20230822	**4.8-5.0m**	**22 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0
320C	**1.8-2.0m**	**18 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	**2**	**8**
BD2/20230818	**1.8-2.0m**	**18 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	**6**
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	**29**
320D	**1.8-2.0m**	**18 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	**1**	**5**
BD1/20230818	**1.8-2.0m**	**18 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	**6**
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	**18**
323	**3.7-3.9m**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230824	**3.7-3.9m**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	**4.7-4.9m**	**24 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	**1**	<0.1	<1	**4**
BD4/20230824	**4.7-4.9m**	**24 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0
324	**1.8-2.0m**	**21 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**2**	<1	<1	<0.1	<1	**1**
BD2/20230821	**1.8-2.0m**	**21 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0
327	**5.8-6.0m**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230818	**5.8-6.0m**	**18 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
328B	**7.8-8.0m**	**24 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**22**	**11**	**110**	**0.7**	**2**	**150**
BD1/20230824	**7.8-8.0m**	**24 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	**3**	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	**152**	**75**	**183**	**150**	0	**187**

Table L1 - QA/QC: Field Replicate Results - Soil

			PAH											Metals							
			Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of total)	PAHs (Sum of positives)	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LRL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.05	4	0.4	1	1	1	0.1	1	1
Sample ID	**Sample Depth**	**Date**																			
328C	**7.8-8.0m**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230824	**7.8-8.0m**	**24 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	**3.7-3.9m**	**24 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	**1**	<0.1	<1	**3**
BD5/20230824	**3.7-3.9m**	**24 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	**2**	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	**67**	0	0	0	0	0
337	**6.8-7.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230825	**6.8-7.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	**7.8-8.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230825	**7.8-8.0m**	**25 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
339	**7.8-8.0m**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20230828	**7.8-8.0m**	**28 Aug 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	**5.8-6.0m**	**28 Aug 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.05	<4	<0.4	**1**	<1	<1	<0.1	<1	**2**
BD1/20230828	**5.8-6.0m**	**28 Aug 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<1	<2	<5	<5	<0.1	<2	<5
RPD			0	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	0

Note:
- Where results were less than five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.
- Table covers main analytes only.

: Field Replicate Results - Groundwater

		TRH												BTEX						PAH																
		C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Benzo[b+j+k]fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LRL		10	10	50	50	100	100	50	10	50	100	50	50	0.001	1	1	1	2	1	0.0002	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Well ID	**Sample Date**																																			
Intra-laboratory Replicates																																				
338	**09 Nov 2023**	**6,000**	**1,500**	**330**	**330**	<100	<100	**330**	**4,500**	**750**	<100	<100	**750**	<0.1	<100	<100	**580**	**3,000**	**870**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**20**
BD1/20231109	**09 Nov 2023**	**8,400**	**2,900**	**370**	**370**	**120**	<100	**490**	**6,400**	**820**	**180**	<100	**1,000**	<0.1	<100	<100	**730**	**3,600**	**1,100**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**20**
RPD		**33**	**64**	**11**	**11**	**18**	0	**39**	**35**	**9**	**57**	0	**29**	0	0	0	23	18	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JBMW06	**20 Sep 2023**	**64,000**	**18,000**	**6,700**	**6,500**	**950**	<100	**7,600**	**45,000**	**16,000**	**1,400**	<100	**17,000**	**0.16**	**2,400**	**32,000**	**2,900**	**4,900**	**4,000**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**64**
BD3/20230920	**20 Sep 2023**	**73,000**	**23,000**	**4,900**	**4,800**	**640**	<100	**5,600**	**53,000**	**9,500**	**670**	**130**	**10,000**	**0.15**	**2,600**	**35,000**	**3,100**	**5,100**	**4,100**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**78**
RPD		**13**	**24**	**31**	**30**	**39**	0	**30**	**16**	**51**	**71**	**26**	**52**	**6**	**8**	**9**	**7**	**4**	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**20**
JBMW11	**10 Nov 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<0.001	<1	<1	<1	<2	<1	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
BD1/20231110	**10 Nov 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<0.001	<1	<1	<1	<2	<1	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JBMW13	**20 Sep 2023**	**18,000**	**5,500**	**2,400**	**2,300**	**360**	<100	**2,700**	**13,000**	**4,800**	**630**	<100	**5,400**	**0.079**	**440**	**3,800**	**2,900**	**3,900**	**1,500**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**36**
BD2/20230920	**20 Sep 2023**	**16,000**	**4,300**	**2,700**	**2,600**	**410**	<100	**3,100**	**12,000**	**5,500**	**720**	<100	**6,300**	**0.087**	**370**	**3,600**	**2,600**	**3,800**	**1,300**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**48**
RPD		**12**	**24**	**12**	**12**	**13**	0	**14**	**8**	**14**	**13**	0	**15**	**10**	**17**	**5**	**11**	**3**	**14**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**29**
Inter-laboratory Replicates																																				
209	**08 Nov 2023**	**450**	**160**	**350**	**350**	**210**	<100	**560**	**390**	**370**	**240**	<100	**610**	**0.003**	<1	**200**	**60**	**23**	**8**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**2.5**
BD1/20231108	**08 Nov 2023**	**400**	**60**	<100	<100	<100	<100	<100	**340**	**100**	<100	<50	**100**	<0.005	<1	**234**	**66**	**30**	**10**	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**2.3**
RPD		**12**	**91**	**111**	**111**	**71**	0	**139**	**14**	**115**	**82**	0	**144**	0	0	**16**	**10**	**26**	**22**	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
210	**08 Nov 2023**	**240**	**86**	**1,300**	**1,300**	**410**	<100	**1,700**	**230**	**1,900**	**520**	<100	**2,400**	**0.009**	**11**	**39**	**10**	**89**	**2**	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**6.7**
BD2/20231108	**08 Nov 2023**	**190**	**70**	**180**	**170**	**180**	<100	**360**	**160**	**220**	**200**	<50	**420**	**0.011**	**9**	**22**	**6**	**82**	<2	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**6.6**
RPD		**23**	**21**	**151**	**154**	**78**	0	**130**	**36**	**158**	**89**	0	**140**	**20**	**20**	**56**	**50**	**8**	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
311	**20 Sep 2023**	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<0.001	<1	<1	<1	<2	<1	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
BD1/20230920	**20 Sep 2023**	<20	<20	<100	<100	<100	<100	<100	<20	<50	<100	<50	<50	<0.005	<1	<2	<2	<2	<2	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JBMW01	**20 Sep 2023**	**570**	**570**	**140**	**140**	<100	<100	**140**	<10	**760**	<100	<100	**760**	**0.002**	<1	<1	**1**	<2	<1	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
BD4/20230920	**20 Sep 2023**	**460**	**460**	<100	<100	<100	<100	<100	<20	**690**	<100	<50	**690**	<0.005	<1	<2	<2	<2	<2	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
RPD		**21**	**21**	**33**	**33**	0	0	**33**	0	**10**	0	0	**10**	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WG233-D	**22 Sep 2023**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**6.1**
BD1/20230922	**22 Sep 2023**	**3,880**	**3,770**	**410**	**410**	<100	<100	**410**	**4,060**	**460**	<100	<50	**460**	<0.005	**101**	**3**	**4**	<2	<2	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**194**

Note:
- Where results were less than five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.
le covers main analytes only.

: Field Replicate Results - Groundwater

		PAH				PFAS								Metals								
		Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of positives)	Sum of PFHxS and PFOS	Sum of PFAS	PFOS + PFOA	PFOA	PFHxS	Perfluorooctane sulfonic acid (PFOS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Phenolics Total
		µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
LRL		0.1	0.1	0.0005	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001	50
Well ID	**Sample Date**																					
Intra-laboratory Replicates																						
338	**09 Nov 2023**	<0.1	<0.1	<0.0005	**0.02**	-	-	-	-	-	-	-	-	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.00005	<0.001	<0.001	-
BD1/20231109	**09 Nov 2023**	<0.1	<0.1	<0.0005	**0.02**	-	-	-	-	-	-	-	-	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.00005	<0.001	**0.002**	-
RPD		0	0	0	0	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	**67**	-
JBMW06	**20 Sep 2023**	<0.1	<0.1	<0.0005	**0.064**	-	-	-	-	-	-	-	-	**0.003**	<0.0001	**0.007**	<0.001	<0.001	<0.00005	<0.001	**0.008**	**200**
BD3/20230920	**20 Sep 2023**	<0.1	<0.1	<0.0005	**0.078**	**0.037**	**0.054**	**0.025**	**0.015**	**0.028**	**0.009**	**0.001**	<0.002	**0.003**	<0.0001	**0.007**	<0.001	<0.001	<0.00005	<0.001	**0.009**	**200**
RPD		0	0	0	**20**	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	**12**	0
JBMW11	**10 Nov 2023**	<0.1	<0.1	<0.0005	<0.0001	**0.17**	**0.17**	**0.16**	**0.002**	**0.011**	**0.16**	**0.004**	<0.002	<0.001	<0.0001	<0.001	**0.004**	<0.001	<0.00005	<0.001	**0.002**	-
BD1/20231110	**10 Nov 2023**	<0.1	<0.1	<0.0005	<0.0001	**0.10**	**0.11**	**0.097**	**0.001**	**0.007**	**0.095**	**0.009**	<0.002	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.00005	<0.001	**0.001**	-
RPD		0	0	0	0	**52**	**43**	**49**	**67**	**44**	**51**	**77**	0	0	0	0	**120**	0	0	0	**67**	-
JBMW13	**20 Sep 2023**	<0.1	<0.1	<0.0005	**0.036**	**0.037**	**0.10**	**0.039**	**0.014**	**0.013**	**0.024**	**0.046**	**0.003**	**0.001**	<0.0001	**0.006**	<0.001	<0.001	<0.00005	<0.001	**0.005**	**60**
BD2/20230920	**20 Sep 2023**	<0.1	<0.1	<0.0005	**0.048**	**0.038**	**0.11**	**0.041**	**0.016**	**0.012**	**0.026**	**0.052**	**0.002**	**0.001**	<0.0001	**0.005**	<0.001	<0.001	<0.00005	<0.001	**0.006**	**70**
RPD		0	0	0	**29**	**3**	**10**	**5**	**13**	**8**	**8**	**12**	**40**	0	0	**18**	0	0	0	0	**18**	**15**
Inter-laboratory Replicates																						
209	**08 Nov 2023**	<0.1	<0.1	<0.0005	**0.0025**	**0.14**	**0.15**	**0.13**	**0.005**	**0.024**	**0.12**	**0.003**	<0.002	**0.002**	<0.0001	**0.002**	<0.001	<0.001	<0.00005	<0.001	<0.001	-
BD1/20231108	**08 Nov 2023**	<0.1	<0.1	-	-	**0.158**	-	-	**0.007**	**0.022**	**0.136**	**0.006**	<0.005	**0.001**	<0.0001	**0.002**	<0.001	<0.001	<0.0001	<0.001	<0.005	<50
RPD		0	0	-	-	**12**	-	-	**33**	**9**	**13**	**67**	0	**67**	0	0	0	0	0	0	0	-
210	**08 Nov 2023**	<0.1	<0.1	<0.0005	**0.0067**	**0.067**	**0.090**	**0.060**	**0.007**	**0.013**	**0.053**	**0.017**	<0.002	**0.002**	<0.0001	**0.007**	<0.001	<0.001	<0.00005	**0.002**	**0.004**	-
BD2/20231108	**08 Nov 2023**	<0.1	<0.1	-	-	**0.074**	-	-	**0.007**	**0.012**	**0.062**	**0.015**	<0.005	**0.001**	<0.0001	**0.006**	**0.003**	<0.001	<0.0001	**0.002**	<0.005	<50
RPD		0	0	-	-	**10**	-	-	0	**8**	**16**	**13**	0	**67**	0	**15**	100	0	0	0	0	-
311	**20 Sep 2023**	<0.1	<0.1	<0.0005	<0.0001	**0.068**	**2.3**	**0.055**	**0.016**	**0.029**	**0.039**	**2.2**	<0.002	**0.001**	<0.0001	**0.001**	<0.001	<0.001	<0.00005	**0.002**	**0.002**	<50
BD1/20230920	**20 Sep 2023**	<0.1	<0.1	-	-	**0.067**	-	-	**0.016**	**0.024**	**0.043**	**1.85**	<0.005	<0.001	<0.0001	**0.001**	**0.001**	<0.001	<0.0001	**0.002**	<0.005	<50
RPD		0	0	-	-	**1**	-	-	0	**19**	**10**	**17**	0	0	0	0	0	0	0	0	0	0
JBMW01	**20 Sep 2023**	<0.1	<0.1	<0.0005	**0.00020**	-	-	-	-	-	-	-	-	<0.001	<0.0001	**0.002**	<0.001	<0.001	<0.00005	<0.001	**0.006**	-
BD4/20230920	**20 Sep 2023**	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	<0.001	<0.0001	**0.002**	<0.001	<0.001	<0.0001	<0.001	<0.005	-
RPD		0	0	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	**18**	-
WG233-D	**22 Sep 2023**	<0.1	<0.1	<0.0005	**0.0061**	**0.19**	**0.26**	**0.15**	**0.021**	**0.060**	**0.13**	**0.053**	<0.002	**0.026**	<0.0001	<0.001	<0.001	<0.001	<0.00005	<0.001	**0.001**	<50
BD1/20230922	**22 Sep 2023**	<0.1	<0.1	-	-	**0.092**	-	-	**0.012**	**0.028**	**0.064**	**0.018**	<0.005	**0.025**	<0.0001	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.005	<50
RPD		0	0	-	-	**70**	-	-	**55**	**73**	**68**	**99**	0	**4**	0	0	0	0	0	0	0	0

Note:
- Where results were less than five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.

le covers main analytes only.

Table L3 - QA/QC: Field Replicate Samples - Soil Vapour

		TPH					BTEX					MAH				PAH	Halogenated Benzenes					Halogenated Hydrocarbons				Chlorinated Hydrocarbons									
		C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2 minus Naphthalene)	Aliphatic >C5-C8	Aliphatic >C9-C12	Aromatic >C9-C10	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	1-methyl-4 ethyl benzene	Styrene	Naphthalene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Trichlorofluoromethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2-dichloroethane	1,2-dichloropropane	Benzyl chloride	Bromodichloromethane
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
LRL		0.2	40	200	50	100	1.6	1.9	2.2	4.3	2.2	2.5	2.5	2.5	2.1	2.6	3.7	3	3	3	2.3	3.8	1.9	2.5	2.8	2.7	3.4	2.7	2	2	2	2.3	2.6	3.4
Soil Vapour Port ID	**Sample Date**																																	
SV-301	**05 Sep 2023**	<200	**50**	<200	<50	<100	<1.6	**10**	**4**	**10**	**3**	<2.5	<2.5	<2.5	<2.1	<2.6	<3.7	<3	<3	<3	<2.3	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4
BD1/20230905	**05 Sep 2023**	<200	<40	<200	<50	<100	<1.6	**20**	**4**	**10**	**4**	<2.5	<2.5	<2.5	<2.1	<2.6	<3.7	<3	<3	<3	<2.3	<3.8	<1.9	<2.5	<2.8	<2.7	<3.4	<2.7	<2	<2	<2	<2.3	<2.6	<3.4
RPD		0	**22**	0	0	0	0	**67**	0	0	**29**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		Chlorinated Hydrocarbons															Solvents															VOCs				
		Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,3-Butadiene	1,4-Dioxane	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Acetone	Carbon disulfide	Cyclohexane	Ethanol	Ethyl acetate	Heptane	Hexane	MTBE	2-Propanol	Tetrahydrofuran	Vinyl acetate	Acrolein	Freon 113	Freon 114	Propene	Methyl Methacrylate
		µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
LRL		5.2	3.1	1.6	1.3	2.4	1	2	2.3	17	5.3	2.7	3.4	2	2.3	1.3	1.1	1.8	15	2	20	11.9	16	1.7	9	1.8	2	1.8	1.8	12	1.5	1.8	11	3.8	2.5	0.9	2
Soil Vapour Port ID	**Sample Date**																																			
SV-301	**05 Sep 2023**	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	**210**	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2
BD1/20230905	**05 Sep 2023**	<5.2	<3.1	<1.6	<1.3	<2.4	<1	<2	<2.3	<17	<5.3	<2.7	<3.4	<2	<2.3	<1.3	<1.1	<1.8	<15	<2	<20	<11.9	<16	<1.7	<9	<1.8	<2	<1.8	<1.8	**220**	<1.5	<1.8	<11	<3.8	<2.5	<0.9	<2
RPD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**	0	0	0	0	0	0	0

Table L4 -QA/QC: Trip Spike Results – Soils (% Recovery)

Sample ID	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene
Trip Spike/20230810	107	108	107	108	106
Trip Spike/20230814	94	94	94	93	93
Trip Spike/20230818	100	100	100	100	100
Trip Spike/20230821	99	99	100	100	100
Trip Spike/20230825	98	98	99	98	99
Trip Spike/20230829	101	101	102	102	101
Trip Spike/20230830	98	98	97	97	98
Trip Spike/20230908	93	94	93	93	93

Table L5 - QA/QC: Trip Spike Results – Water (% Recovery)

Sample ID	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene
Trip Spike/20230921	105	103	115	113	109
Trip Spike/20230922	99	100	104	106	103
Trip Spike/20231109	113	112	118	109	111

Table L6 - QA/QC: Trip Blank Results - Soils (mg/kg)

Sample ID	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	Xylenes (total)	TRH (F1)	Naphthalene
Trip Blank/20230810	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230814	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230818	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230821	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230825	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230829	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230830	<0.2	<0.5	<1	<2	<1	<1	<25	<1
Trip Blank/20230908	<0.2	<0.5	<1	<2	<1	<1	<25	<1

Table L7 - QA/QC: Trip Blank Results - Water (µg/L)

Sample ID	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	TRH (F1)	Naphthalene
Trip Blank/20230921	<1	<1	<1	<2	<1	<10	<1
Trip Blank/20230922	<1	<1	<1	<2	<1	<10	<1
Trip Blank/20231109	<1	<1	<1	<2	<1	<10	<1

Table L8 - QA/QC: Rinsate Results – Groundwater (µg/L)

Sample ID	Benzene	Toluene	Ethylbenzene	m+p-Xylene	o-Xylene	TRH (F1)	TRH (>C10-C40)	All VOC	All PAH	All Metals	All Phenols	All PFAS
Rinsate 1/ 20230829 (for soil sampling)	<1	<1	<1	<2	<1	<10	<50	<LRL	<LRL	<LRL	<LRL	<LRL
Rinsate 1/ 20230922 (for groundwater sampling)	<1	<1	<1	<2	<1	<10	<50	<LRL	<LRL	<LRL	<LRL	<LRL
Rinsate 1/ 20231108 (for groundwater sampling)	<1	<1	<1	<2	<1	<10	<50	<LRL	<LRL	<LRL	<LRL	<LRL

Table L9 - QA/QC: Shroud Results – Soil Vapour (µg/m^3)

Sample ID	Isopropyl Alcohol
Shroud 1/230227	821,428,571
Shroud 2/230228	3,714,286