

TABLE M
SUMMARY OF FIELD QA/QC RESULTS

ANALYSIS	Envirolab PQL		TB1 ^s	RS1 ^w	TS1 ^w
			11/05/2018	11/05/2018	17/05/2018
	mg/kg	µg/L	mg/kg	mg/kg	% Recovery
Benzene	1	0.2	<0.2	<1	110
Toluene	1	0.5	<0.5	<1	105
Ethylbenzene	1	1	<1	<1	110
m+p-xylene	2	2	<2	<2	120
o-xylene	1	1	<1	<1	110

Explanation:

^w Sample type (water)

^s Sample type (sand)

BTEX concentrations in trip spikes are presented as % recovery

Values above PQLs/Acceptance criteria

VALUE

TABLE N
SOIL LABORATORY FAECAL COLIFORM RESULTS
All data in MPN/100G¹ unless stated otherwise

			Faecal Coliforms in soil	Total coliforms in soil
PQL - Envirolab Services			200	200
Stabilisation Grade A Microbiological Standard			<1,000 MPN/g	-
Sample Reference	Sample Depth	Sample Description		
BH04	0.17-0.3	Fill: silty clay	<200	<200
BH07	0.1-0.2	Fill: brick and sand	<200	<200
BH08	0.13-0.25	Fill: silty clay	<200	200
BH09	0.14-0.2	Fill: sand	<200	<200
Total Number of samples			4	4
Maximum Value			<PQL	200
¹ - MPN - Most probable number				

Appendix A: Site Photos

Project Ref: E31452K

Site Address: 97-103 Bowral Road, Bowral, NSW

Selected Site Photos Dated: Between 8th and 11th May 2018



Photograph 1: Looking south towards main hospital building and where demountable building has been removed. The grass line in the front of the photograph demonstrates the approximate extent of the fill soil observed to contain asbestos containing material (FCF).



Photograph 2: The brick building located at the south of the main hospital buildings identified to contain the diesel fuel aboveground storage tank.

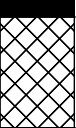
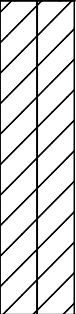


Photograph 3: The medical waste/contaminated waste secure storage area. Located to the south-east of the AST and behind the maintenance building.

Appendix B: Borehole Logs

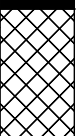
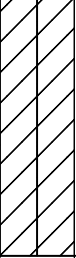
ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	ASPHALTIC CONCRETE: 50mm.t. FILL: Gravelly sand, fine to coarse grained, grey, medium to coarse angular igneous, trace of ash.	D			
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.2m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	ASPHALTIC CONCRETE: 50mm.t. FILL: Gravelly sand, fine to coarse grained, grey, medium to coarse angular igneous, trace of ash.	D			
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.1m				
						2							
						2.5							
						3							
						3.5							

Borehole No.
BH3

1/2

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER JK305 R.L. Surface:													
Date: 9/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
						0			ASPHALTIC CONCRETE: 140mm.t				
						0.5		-	FILL: Gravelly sand, fine to coarse grained, grey, fine to coarse angular igneous, with a trace of shale gravel and ash.	D			
					N = 13 6,6,7				FILL: Silty clay, low to medium plasticity, orange brown, trace of igneous and ironstone gravel, ash, root fibres and sand.	w<PL			
						1.5							
					N = 15 6,7,8		CL	Silty CLAY: medium plasticity, grey red, trace of ironstone.	w<PL				
						2							
						2.5							
						3			Silty CLAY: medium plasticity, grey.	w<PL			
					N = 21 9,10,11								
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH3
2/2

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K			Method: SPIRAL AUGER JK305				R.L. Surface:						
Date: 9/5/18			Logged/Checked by: K.T./T.H.				Datum:						
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
						4		CL	Silty CLAY: medium plasticity, grey.	w<PL			Groundwater monitoring well installed to 6.0m. Class 18 machine slotted 50mm dia. PVC standpipe 6.0m to 3.0m. Casing 3.0m to 0.0m. 2mm sand filter pack 6.0m to 3.0m. Bentonite seal 3m to 2.5m. Backfilled with sand (and/or cuttings) to the surface. Completed with a concreted gatic cover.
						4.5							
						5							
						5.5		CL	Shaley CLAY: medium plasticity, grey.	w<PL			
						6			END OF BOREHOLE AT 6.0m				
						6.5							
						7							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 11/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			ASPHALTIC CONCRETE: 170mm.t.				
								-	FILL: Silty clay, medium plasticity, brown, with a trace of igneous and ironstone gravel, ash and brick.	w<PL			
						0.5		CL-CH	Silty CLAY: medium to high plasticity, brown, trace of ironstone gravel.	w<PL			
									END OF BOREHOLE AT 0.65m				HAND AUGER SPINNING ON GRAVEL
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH5
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	FILL: Silty sand, fine to medium grained, brown, trace of igneous gravel, ash and root fibres.	D			GRASS COVER
						0.5		CL-CH	Silty CLAY: medium to high plasticity, orange brown, trace of ironstone gravel and root fibres.	w<PL			
						1			END OF BOREHOLE AT 1.0m				
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH6
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			CONCRETE: 150mm.t.				
						0.5		-	FILL: Sandy gravel, medium to coarse angular igneous, grey brown.	D			
						0.5		CL-CH	Silty CLAY: medium to high plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.37m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 11/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	CONCRETE: 100mm.t.				
								-	BRICK AND SAND: fine to medium grained, yellow.	D			
								-	FILL: Sandy silty clay, low plasticity, dark brown, trace of igneous and ironstone gravel, ash and brick.	w<PL			
						0.5		CL	Silty CLAY: medium plasticity, brown.	w<PL			
						1			END OF BOREHOLE AT 1.0m				HAND AUGER SPINNING ON GRAVEL
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 11/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			CONCRETE: 130mm.t.				
								-	FILL: Silty clay, low to medium plasticity, brown, trace of sand, igneous and ironstone gravel.	w<PL			
						0.5		CL-CH	Silty CLAY: medium to high plasticity, brown.	w<PL			
									END OF BOREHOLE AT 0.6m				HAND AUGER SPINNING ON GRAVEL
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH9
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER R.L. Surface: Date: 9/5/18 JK305 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			CONCRETE: 140mm.t.				
								SP	SAND: fine to coarse grained, yellow. BRICK	D			
									FILL: Silty clay: low to medium plasticity, dark brown, trace of brick and ash.	w<PL			
						0.5		CL-CH	Silty CLAY: medium to high plasticity, brown, trace of ironstone gravel.	w<PL			
						1			END OF BOREHOLE AT 1.0m				
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH10
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 8/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty sand, fine to medium grained, brown, trace of igneous gravel, ash and root fibres.	M			
									FILL: Silty clay, medium plasticity, yellow brown, trace of ash and ironstone gravel. END OF BOREHOLE AT 0.2m	W≈PL			REFUSAL ON SUSPECTED CONCRETE SLAB
						0.5							
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH11
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Sandy silty clay, low plasticity, dark brown, fine to medium grained, trace igneous gravel, brick, ash and root fibres.	w<PL			GRASS COVER
						0.5			FILL: Silty clay, medium plasticity, brown, trace ironstone gravel, igneous gravel, ash and sand.	w≈PL			
						1		CL	Silty CLAY: medium plasticity, brown and orange, trace ironstone gravel.	w≈PL			
					1.5								
						2			END OF BOREHOLE AT 1.95m				
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 8/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			FILL: Silty clay, low to medium plasticity, brown, with well rounded river pebbles (quartz), trace of concrete fragments, ash, igneous gravel and root fibres. END OF BOREHOLE AT 0.15m	w<PL			GRASS COVER
						0.5							HAND AUGER REFUSAL ON SUSPECTED CONCRETE
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.

BH13

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Date: 8/5/18 Method: HAND AUGER Logged/Checked by: K.T./T.H. R.L. Surface: Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of igneous gravel, ash and root fibres.	w<PL			WOOD CHIP COVER
						0.5			END OF BOREHOLE AT 0.2m				
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	ASPHALTIC CONCRETE: 50mm.t FILL: Sandy gravel, medium to coarse, angular, grey, trace of ash.	D			
						0.5		FILL: Gravelly sandy clay, low plasticity, yellow, fine to coarse angular igneous quartz.	w<PL				
						1		FILL: Silty clay, medium plasticity, dark brown, trace of igneous gravel, ash and root fibres.	w<PL				
						1.5		CL	SILTY CLAY: medium plasticity, yellow mottled red with ironstone gravel.	w<PL			
					2								
						2.5			END OF BOREHOLE AT 2.1m				
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.

BH15

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Date: 10/5/18 Method: EZI PROBE Logged/Checked by: K.T./T.H. R.L. Surface: Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, dark brown, trace of igneous gravel, sand, ash and root fibres.	w<PL			GRASS COVER
						0.5							
						1		CL	Silty CLAY: medium plasticity, yellow brown, trace of ironstone gravel.	w<PL			
						1.5			END OF BOREHOLE AT 1.4m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.

BH16

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 8/5/18 Logged/Checked by: K.T./T.H. Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			FILL: Silty clay, low to medium plasticity, dark brown, trace of igneous gravel and root fibres, concrete and brick fragments.	w<PL			GRASS COVER
						0.5			END OF BOREHOLE AT 0.25m				HAND AUGER SPINNING ON SUSPECTED CONCRETE
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: HAND AUGER R.L. Surface:													
Date: 8/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			FILL: Silty clay, medium plasticity, dark brown, trace of brick fragments, igneous gravel, ash and root fibres.	W≈PL			GRASS COVER
						0.5							
						1		CH	Silty CLAY: high plasticity, yellow brown, trace of ironstone gravel.	w≈PL			
						1			END OF BOREHOLE AT 1.0m				HAND AUGER REFUSAL ON STIFF CLAY
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			FILL: Silty clay, low plasticity, dark brown, trace of sand, ash and root fibres.	w<PL			GRASS COVER
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.2m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH19
1/1

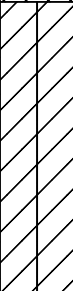
Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of sand, igneous gravel, ash and root fibres.	w<PL			GRASS COVER
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.3m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH20
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, dark brown, trace of sand, igneous gravel, ash and root fibres.	w<PL			GRASS COVER
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of root fibres.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.13m				
						2							
						2.5							
						3							
						3.5							

Borehole No.
BH21

1/2

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

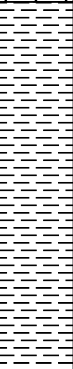
Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER JK305 R.L. Surface:													
Date: 9/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
						0			FILL: Silty clay, low plasticity, dark brown, trace of sand, ash and root fibres.	w<PL			GRASS COVER
						0.5			FILL: Silty clay, low to medium plasticity, brown, trace of ironstone gravel, quartz, ash and root fibres.	w<PL			
						1							
						1.5		CL	Silty CLAY: medium plasticity, brown grey, trace of ironstone banding.	w<PL			
					N = 9 5,4,5								
					N = 13 6,6,7								
					2								
					2.5								
					3								
					3.5								

▼
2HRS
AFTER
COMPL-
ETION

ENVIRONMENTAL LOG

Borehole No.
BH21
2/2

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER R.L. Surface: Date: 9/5/18 JK305 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
						4		CL	Silty CLAY: medium plasticity, brown grey, trace of ironstone banding.	w<PL			
						4.5		-	SHALE: grey.	XW			
						5							
						5.5			END OF BOREHOLE AT 5.5m				Groundwater monitoring well installed to 5.5m. Class 18 machine slotted 50mm dia. PVC standpipe 5.5m to 3.0m. Casing 3.0m to 0.0m. 2mm sand filter pack 5.5m to 3.0m. Bentonite seal 3.0m to 2.8m. Backfilled with sand (and/or cuttings) to the surface. Completed with a concreted gatic cover.
						6							
						6.5							
						7							

ENVIRONMENTAL LOG

Borehole No.

BH22

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Date: 8/5/18 Method: HAND AUGER Logged/Checked by: K.T./T.H. R.L. Surface: Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0			FILL: Silty clay, low to medium plasticity, brown, light brown, trace of root fibres and igneous gravel. END OF BOREHOLE AT 0.15m	w<PL			GRASS COVER
						0.5							HAND AUGER REFUSAL ON HARD CLAY
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.

BH23

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Date: 8/5/18 Method: HAND AUGER Logged/Checked by: K.T./T.H. R.L. Surface: Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPLETION						0			FILL: Silty clay, low to medium plasticity, brown, yellow and brown, trace of igneous gravel and root fibres. END OF BOREHOLE AT 0.1m	w<PL			GRASS COVER HAND AUGER REFUSAL ON HARD CLAY
						0.5							
						1							
						1.5							
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.

BH24

1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW														
Job No. E31452K Date: 8/5/18 Method: HAND AUGER Logged/Checked by: K.T./T.H. R.L. Surface: Datum:														
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks	
	ES	ASS	ASB	SAL										DB
DRY ON COMPLETION						0			FILL: Silty clay, low to medium plasticity, brown, yellow brown, trace of igneous gravel and root fibres. END OF BOREHOLE AT 0.1m	w<PL			GRASS COVER	
						0.5							HAND AUGER REFUSAL ON HARD CLAY	
						1								
						1.5								
						2								
						2.5								
						3								
						3.5								

ENVIRONMENTAL LOG

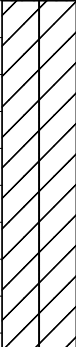
Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of igneous gravel and root fibres.	w<PL			GRASS COVER
						0.5		CL	Silty CLAY: medium plasticity, reddish brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.4m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

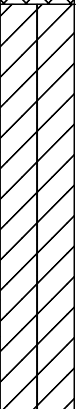
Borehole No.
BH26
1/1

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0		-	ASPHALTIC CONCRETE: 50mm.t FILL: Sandy gravel, medium to coarse, angular, igneous, grey, trace of ash and root fibres.	D			
						0.5			FILL: Silty clay, medium plasticity, grey brown, trace of igneous gravel and root fibres.	w<PL			
						1							
						1.5		CL	Silty CLAY: medium plasticity, grey, with a trace of root fibres.				
						2							
						2.5			END OF BOREHOLE AT 2.25m				
						3							
						3.5							

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface:													
Date: 10/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL -ETION						0		-	ASPHALTIC CONCRETE: 50mm.t. FILL: Sandy gravel, medium to coarse grained, angular, igneous, grey, trace of ash.	D			
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.4m				
						2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH28
1/2

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER JK305 R.L. Surface:													
Date: 9/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASS	SAL									
DRY ON COMPL -ETION						0		-	ASPHALTIC CONCRETE: 100mm.t.				
						0.5			FILL: Gravelly sand, fine to coarse grained, grey, fine to coarse angular igneous, trace of brick fragments, ash and root fibres. FILL: Silty clay, low to medium plasticity, brown, trace of ironstone gravel, igneous gravel, root fibres and ash.	D w<PL			POSSIBLY NATURAL
					N = 14 6,7,7	1							
						1.5		CL	Silty CLAY: medium plasticity, grey, trace of root fibres.				
					N = 10 3,4,6	2							
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH28
2/2

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER R.L. Surface: JK305 Date: 9/5/18 Logged/Checked by: K.T./T.H. Datum:													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
▼ 2HRS AFTER COMPL- ETION								CL	Silty CLAY: medium plasticity, grey, trace of root fibres.	w<PL			
						4		-	SHALE: grey brown.	DW			ROCK INCREASING IN STRENGTH
						4.5							
						5							
						5.5			END OF BOREHOLE AT 5.5m				REFUSAL ON HARD SHALE
						6							Groundwater monitoring well installed to 5.0m. Class 18 machine slotted 50mm dia. PVC standpipe 5.0m to 3.0m. Casing 3.0m to 0.0m. 2mm sand filter pack 5.0m to 2.9m. Bentonite seal 2.9m to 2.7m. Backfilled with sand (and/or cuttings) to the surface. Completed with a concreted gatic cover.
						6.5							
						7							

ENVIRONMENTAL LOG

Borehole No.

BH29

1/2

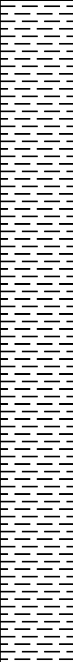
Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER R.L. Surface: JK305 Date: 9/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
▼ 2HRS AFTER COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of root fibres.	w<PL			GRASS COVER
						0.5			FILL: Silty clay, medium plasticity, brown, trace of sandstone gravel and sand.	w<PL			POSSIBLY NATURAL
						1		CL	Silty CLAY: medium plasticity, orange brown, trace of fine ironstone gravel.	w<PL			
						1.5							
						2							
					2.5								
						3							
						3.5							

ENVIRONMENTAL LOG

Borehole No.
BH29
2/2

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER R.L. Surface: Date: 9/5/18 JK305 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
▼								CL	Silty CLAY: medium plasticity, orange brown, trace of root fibres.	w<PL			
						4 4.5 5 5.5		-	SHALE: grey.	DW			
						6 6.5 7			END OF BOREHOLE AT 5.6m				'TC' BIT REFUSAL ON HARD SHALE Groundwater monitoring well installed to 5.6m. Class 18 machine slotted 50mm dia. PVC standpipe 5.6m to 3.0m. Casing 3.0m to 0.0m. 2mm sand filter pack 5.6m to 2.8m. Bentonite seal 2.8m to 2.4m. Backfilled with sand (and/or cuttings) to the surface. Completed with a concreted gatic cover.

ENVIRONMENTAL LOG

Borehole No.
BH30
1/1

Environmental logs are not to be used for geotechnical purposes

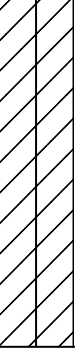
Client: NSW HEALTH INFRASTRUCTURE Project: PROPOSED HOSPITAL REDEVELOPMENT Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: EZI PROBE R.L. Surface: Date: 10/5/18 Datum: Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASSB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of igneous gravel, ash and root fibres.	w<PL			GRASS COVER
						0.5		CL	Silty CLAY: medium plasticity, brown, trace of ironstone gravel and root fibres.	w<PL			
						1							
						1.5			END OF BOREHOLE AT 1.15m				
						2							
						2.5							
						3							
						3.5							

Borehole No.
BH31

1/1

ENVIRONMENTAL LOG

Environmental logs are not to be used for geotechnical purposes

Client: NSW HEALTH INFRASTRUCTURE													
Project: PROPOSED HOSPITAL REDEVELOPMENT													
Location: 97-103 BOWRAL ROAD, BOWRAL, NSW													
Job No. E31452K Method: SPIRAL AUGER JK305 R.L. Surface:													
Date: 9/5/18 Datum:													
Logged/Checked by: K.T./T.H.													
Groundwater Record	SAMPLES				Field Tests	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel. Density	Hand Penetrometer Readings (kPa.)	Remarks
	ES	ASS	ASB	SAL									
DRY ON COMPL- ETION						0			FILL: Silty clay, low plasticity, brown, trace of building and demolition rubble, glass, brick, asphaltic concrete fragments, asphalt, sandstone and igneous gravel, ash, sand and root fibres.	w<PL			
						0.5			FILL: Silty clay, medium plasticity, brown, trace of igneous and ironstone gravel and ash.	w<PL			
						1			FILL: Pipe fragments.				
						1.5		CL-CH	Silty CLAY: medium to high plasticity, brown, trace of ironstone gravel.	w≈PL			
									Silty CLAY: ironstone banding. as above, but grey.				
						2			END OF BOREHOLE AT 1.95m				
						2.5							
						3							
						3.5							

ENVIRONMENTAL LOGS EXPLANATORY NOTES

INTRODUCTION

These notes have been provided to amplify the environmental report in regard to classification methods, field procedures and certain matters relating to the logging of soil and rock. Not all notes are necessarily relevant to all reports.

Where geotechnical borehole logs are utilised for environmental purpose, reference should also be made to the explanatory notes included in the geotechnical report. Environmental logs are not suitable for geotechnical purposes.

The ground is a product of continuing natural and man-made processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Environmental studies include gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they are directly relevant only to the ground at the place where and time when the investigation was carried out.

DESCRIPTION AND CLASSIFICATION METHODS

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726:2017 'Geotechnical Site Investigations'. In general, descriptions cover the following properties – soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geoenvironmental practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached soil classification table qualified by the grading of other particles present (eg. sandy clay) as set out below:

Soil Classification	Particle Size
Clay	< 0.002mm
Silt	0.002 to 0.075mm
Sand	0.075 to 2.36mm
Gravel	2.36 to 63mm
Cobbles	63 to 200mm
Boulders	> 200mm

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

Relative Density	SPT 'N' Value (blows/300mm)
Very loose (VL)	< 4
Loose (L)	4 to 10
Medium dense (MD)	10 to 30
Dense (D)	30 to 50
Very Dense (VD)	> 50

Cohesive soils are classified on the basis of strength (consistency) either by use of a hand penetrometer, vane shear, laboratory testing and/or tactile engineering examination. The strength terms are defined as follows.

Classification	Unconfined Compressive Strength (kPa)	Indicative Undrained Shear Strength (kPa)
Very Soft (VS)	≤ 25	≤ 12
Soft (S)	> 25 and ≤ 50	> 12 and ≤ 25
Firm (F)	> 50 and ≤ 100	> 25 and ≤ 50
Stiff (St)	> 100 and ≤ 200	> 50 and ≤ 100
Very Stiff (VSt)	> 200 and ≤ 400	> 100 and ≤ 200
Hard (Hd)	> 400	> 200
Friable (Fr)	Strength not attainable – soil crumbles	

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'shale' is used to describe fissile mudstone, with a weakness parallel to bedding. Rocks with alternating inter-laminations of different grain size (eg. siltstone/claystone and siltstone/fine grained sandstone) are referred to as 'laminite'.

INVESTIGATION METHODS

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All methods except test pits, hand auger drilling and portable Dynamic Cone Penetrometers require the use of a mechanical rig which is commonly mounted on a truck chassis or track base.

Test Pits: These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the in situ soils and 'weaker' bedrock if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for a large excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

Hand Auger Drilling: A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Refusal of the hand auger can occur on a variety of materials such as obstructions within any fill, tree roots, hard clay, gravel or ironstone, cobbles and boulders, and does not necessarily indicate rock level.

Continuous Spiral Flight Augers: The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of limited reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

Rock Augering: Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock cuttings. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

Wash Boring: The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be assessed from the cuttings, together with some information from "feel" and rate of penetration.

Mud Stabilised Drilling: Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term 'mud' encompasses a range of products ranging from bentonite to polymers. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (eg. from SPT and U50 samples) or from rock coring, etc.

Continuous Core Drilling: A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, NMLC or HQ triple tube core barrels, which give a core of about 50mm and 61mm diameter, respectively, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as NO CORE. The location of NO CORE recovery is determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the bottom of the drill run.

Standard Penetration Tests: Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils, as a means of indicating density or

strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289.6.3.1–2004 (R2016) *'Methods of Testing Soils for Engineering Purposes, Soil Strength and Consolidation Tests – Determination of the Penetration Resistance of a Soil – Standard Penetration Test (SPT)'*.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63.5kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

- In the case where full penetration is obtained with successive blow counts for each 150mm of, say, 4, 6 and 7 blows, as

N = 13
4, 6, 7

- In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as

N > 30
15, 30/40mm

The results of the test can be related empirically to the engineering properties of the soil.

A modification to the SPT is where the same driving system is used with a solid 60° tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as 'N_c' on the borehole logs, together with the number of blows per 150mm penetration.

LOGS

The borehole or test pit logs presented herein are an interpretation of the subsurface conditions, and their reliability will depend to some extent on the frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will enable the most reliable assessment, but is not always practicable or possible to justify on economic grounds. In any case, the boreholes or test pits represent only a very small sample of the total subsurface conditions.

The terms and symbols used in preparation of the logs are defined in the following pages.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than 'straight line' variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.

GROUNDWATER

Where groundwater levels are measured in boreholes, there are several potential problems:

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if reliable water observations are to be made.

More reliable measurements can be made by installing standpipes which are read after the groundwater level has stabilised at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

FILL

The presence of fill materials can often be determined only by the inclusion of foreign objects (eg. bricks, steel, etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably assess the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density and material type is much greater than with natural soil deposits. Consequently, there is an increased risk of adverse environmental characteristics or behaviour. If the volume and nature of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes.

LABORATORY TESTING

Laboratory testing has not been undertaken to confirm the soil classification and rock strengths indicated on the environmental logs unless noted in the report.

SYMBOL LEGENDS

SOIL

	FILL
	TOPSOIL
	CLAY (CL, CI, CH)
	SILT (ML, MH)
	SAND (SP, SW)
	GRAVEL (GP, GW)
	SANDY CLAY (CL, CI, CH)
	SILTY CLAY (CL, CI, CH)
	CLAYEY SAND (SC)
	SILTY SAND (SM)
	GRAVELLY CLAY (CL, CI, CH)
	CLAYEY GRAVEL (GC)
	SANDY SILT (ML, MH)
	PEAT AND HIGHLY ORGANIC SOILS (Pt)

ROCK

	CONGLOMERATE
	SANDSTONE
	SHALE/MUDSTONE
	SILTSTONE
	CLAYSTONE
	COAL
	LAMINITE
	LIMESTONE
	PHYLLITE, SCHIST
	TUFF
	GRANITE, GABBRO
	DOLERITE, DIORITE
	BASALT, ANDESITE
	QUARTZITE

OTHER MATERIALS

	BRICKS OR PAVERS
	CONCRETE
	ASPHALTIC CONCRETE

CLASSIFICATION OF COARSE AND FINE GRAINED SOILS

Major Divisions		Group Symbol	Typical Names	Field Classification of Sand and Gravel	Laboratory Classification	
Coarse grained soil (more than 65% of soil excluding oversize fraction is greater than 0.075mm)	GRAVEL (more than half of coarse fraction is larger than 2.36mm)	GW	Gravel and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 4$ $1 < C_c < 3$
		GP	Gravel and gravel-sand mixtures, little or no fines, uniform gravels	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		GM	Gravel-silt mixtures and gravel-sand-silt mixtures	'Dirty' materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	Fines behave as silt
		GC	Gravel-clay mixtures and gravel-sand-clay mixtures	'Dirty' materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	Fines behave as clay
	SAND (more than half of coarse fraction is smaller than 2.36mm)	SW	Sand and gravel-sand mixtures, little or no fines	Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	$C_u > 6$ $1 < C_c < 3$
		SP	Sand and gravel-sand mixtures, little or no fines	Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength	≤ 5% fines	Fails to comply with above
		SM	Sand-silt mixtures	'Dirty' materials with excess of non-plastic fines, zero to medium dry strength	≥ 12% fines, fines are silty	N/A
		SC	Sand-clay mixtures	'Dirty' materials with excess of plastic fines, medium to high dry strength	≥ 12% fines, fines are clayey	

Laboratory Classification Criteria

A well graded coarse grained soil is one for which the coefficient of uniformity $C_u > 4$ and the coefficient of curvature $1 < C_c < 3$. Otherwise, the soil is poorly graded. These coefficients are given by:

$$C_u = \frac{D_{60}}{D_{10}} \quad \text{and} \quad C_c = \frac{(D_{30})^2}{D_{10} D_{60}}$$

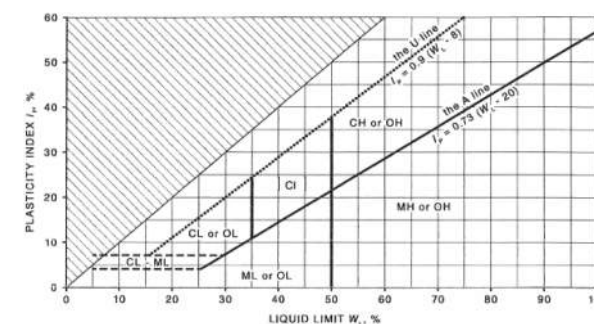
Where D_{10} , D_{30} and D_{60} are those grain sizes for which 10%, 30% and 60% of the soil grains, respectively, are smaller.

NOTES:

- For a coarse grained soil with a fines content between 5% and 12%, the soil is given a dual classification comprising the two group symbols separated by a dash; for example, for a poorly graded gravel with between 5% and 12% silt fines, the classification is GP-GM.
- Where the grading is determined from laboratory tests, it is defined by coefficients of curvature (C_c) and uniformity (C_u) derived from the particle size distribution curve.
- Clay soils with liquid limits $> 35\%$ and $\leq 50\%$ may be classified as being of medium plasticity.
- The U line on the Modified Casagrande Chart is an approximate upper bound for most natural soils.

Major Divisions		Group Symbol	Typical Names	Field Classification of Silt and Clay			Laboratory Classification
				Dry Strength	Dilatancy	Toughness	% < 0.075mm
Fine grained soils (more than 35% of soil excluding oversize fraction is less than 0.075mm)	SILT and CLAY (low to medium plasticity)	ML	Inorganic silt and very fine sand, rock flour, silty or clayey fine sand or silt with low plasticity	None to low	Slow to rapid	Low	Below A line
		CL, CI	Inorganic clay of low to medium plasticity, gravelly clay, sandy clay	Medium to high	None to slow	Medium	Above A line
		OL	Organic silt	Low to medium	Slow	Low	Below A line
	SILT and CLAY (high plasticity)	MH	Inorganic silt	Low to medium	None to slow	Low to medium	Below A line
		CH	Inorganic clay of high plasticity	High to very high	None	High	Above A line
		OH	Organic clay of medium to high plasticity, organic silt	Medium to high	None to very slow	Low to medium	Below A line
	Highly organic soil	Pt	Peat, highly organic soil	—	—	—	—

Modified Casagrande Chart for Classifying Silts and Clays according to their Behaviour



LOG SYMBOLS

Log Column	Symbol	Definition																		
Groundwater Record	▼	Standing water level. Time delay following completion of drilling/excavation may be shown.																		
	—C—	Extent of borehole/test pit collapse shortly after drilling/excavation.																		
	▶	Groundwater seepage into borehole or test pit noted during drilling or excavation.																		
Samples	ES U50 DB DS ASB ASS SAL	Sample taken over depth indicated, for environmental analysis. Undisturbed 50mm diameter tube sample taken over depth indicated. Bulk disturbed sample taken over depth indicated. Small disturbed bag sample taken over depth indicated. Soil sample taken over depth indicated, for asbestos analysis. Soil sample taken over depth indicated, for acid sulfate soil analysis. Soil sample taken over depth indicated, for salinity analysis.																		
Field Tests	N = 17 4, 7, 10	Standard Penetration Test (SPT) performed between depths indicated by lines. Individual figures show blows per 150mm penetration. 'Refusal' refers to apparent hammer refusal within the corresponding 150mm depth increment.																		
	N _c =	5																		
		7																		
		3R																		
	VNS = 25 PID = 100	Vane shear reading in kPa of undrained shear strength. Photoionisation detector reading in ppm (soil sample headspace test).																		
Moisture Condition (Fine Grained Soils)	w > PL w ≈ PL w < PL w ≈ LL w > LL	Moisture content estimated to be greater than plastic limit. Moisture content estimated to be approximately equal to plastic limit. Moisture content estimated to be less than plastic limit. Moisture content estimated to be near liquid limit. Moisture content estimated to be wet of liquid limit.																		
(Coarse Grained Soils)	D M W	DRY – runs freely through fingers. MOIST – does not run freely but no free water visible on soil surface. WET – free water visible on soil surface.																		
Strength (Consistency) Cohesive Soils	VS S F St VSt Hd Fr ()	VERY SOFT – unconfined compressive strength ≤ 25kPa. SOFT – unconfined compressive strength > 25kPa and ≤ 50kPa. FIRM – unconfined compressive strength > 50kPa and ≤ 100kPa. STIFF – unconfined compressive strength > 100kPa and ≤ 200kPa. VERY STIFF – unconfined compressive strength > 200kPa and ≤ 400kPa. HARD – unconfined compressive strength > 400kPa. FRIABLE – strength not attainable, soil crumbles. Bracketed symbol indicates estimated consistency based on tactile examination or other assessment.																		
Density Index/ Relative Density (Cohesionless Soils)	VL L MD D VD ()	<table border="1"> <thead> <tr> <th></th><th>Density Index (I_D) Range (%)</th><th>SPT 'N' Value Range (Blows/300mm)</th></tr> </thead> <tbody> <tr> <td>VERY LOOSE</td><td>≤ 15</td><td>0 – 4</td></tr> <tr> <td>LOOSE</td><td>> 15 and ≤ 35</td><td>4 – 10</td></tr> <tr> <td>MEDIUM DENSE</td><td>> 35 and ≤ 65</td><td>10 – 30</td></tr> <tr> <td>DENSE</td><td>> 65 and ≤ 85</td><td>30 – 50</td></tr> <tr> <td>VERY DENSE</td><td>> 85</td><td>> 50</td></tr> </tbody> </table> Bracketed symbol indicates estimated density based on ease of drilling or other assessment.		Density Index (I _D) Range (%)	SPT 'N' Value Range (Blows/300mm)	VERY LOOSE	≤ 15	0 – 4	LOOSE	> 15 and ≤ 35	4 – 10	MEDIUM DENSE	> 35 and ≤ 65	10 – 30	DENSE	> 65 and ≤ 85	30 – 50	VERY DENSE	> 85	> 50
	Density Index (I _D) Range (%)	SPT 'N' Value Range (Blows/300mm)																		
VERY LOOSE	≤ 15	0 – 4																		
LOOSE	> 15 and ≤ 35	4 – 10																		
MEDIUM DENSE	> 35 and ≤ 65	10 – 30																		
DENSE	> 65 and ≤ 85	30 – 50																		
VERY DENSE	> 85	> 50																		
Hand Penetrometer Readings	300 250	Measures reading in kPa of unconfined compressive strength. Numbers indicate individual test results on representative undisturbed material unless noted otherwise.																		

Log Symbols continued

Log Column	Symbol	Definition
Remarks	'V' bit 'TC' bit  Soil Origin	Hardened steel 'V' shaped bit. Twin pronged tungsten carbide bit. Penetration of auger string in mm under static load of rig applied by drill head hydraulics without rotation of augers. The geological origin of the soil can generally be described as: RESIDUAL – soil formed directly from insitu weathering of the underlying rock. No visible structure or fabric of the parent rock. EXTREMELY WEATHERED – soil formed directly from insitu weathering of the underlying rock. Material is of soil strength but retains the structure and/or fabric of the parent rock. ALLUVIAL – soil deposited by creeks and rivers. ESTUARINE – soil deposited in coastal estuaries, including sediments caused by inflowing creeks and rivers, and tidal currents. MARINE – soil deposited in a marine environment. AEOLIAN – soil carried and deposited by wind. COLLUVIAL – soil and rock debris transported downslope by gravity, with or without the assistance of flowing water. Colluvium is usually a thick deposit formed from a landslide. The description 'slopewash' is used for thinner surficial deposits. LITTORAL – beach deposited soil.

Classification of Material Weathering

Term		Abbreviation		Definition
Residual Soil		RS		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.
Extremely Weathered		XW		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.
Highly Weathered	Distinctly Weathered (Note 1)	HW	DW	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.
Moderately Weathered		MW		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.
Slightly Weathered		SW		Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.
Fresh		FR		Rock shows no sign of decomposition of individual minerals or colour changes.

NOTE 1: The term 'Distinctly Weathered' is used where it is not practicable to distinguish between 'Highly Weathered' and 'Moderately Weathered' rock. 'Distinctly Weathered' is defined as follows: *'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 weathering products in pores'*. There is some change in rock strength.

Rock Material Strength Classification

Term	Abbreviation	Uniaxial Compressive Strength (MPa)	Guide to Strength	
			Point Load Strength Index $IS_{(50)}$ (MPa)	Field Assessment
Very Low Strength	VL	0.6 to 2	0.03 to 0.1	Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 30mm thick can be broken by finger pressure.
Low Strength	L	2 to 6	0.1 to 0.3	Easily scored with a knife; indentations 1mm to 3mm show in the specimen with firm blows of the pick point; has dull sound under hammer. A piece of core 150mm long by 50mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling.
Medium Strength	M	6 to 20	0.3 to 1	Scored with a knife; a piece of core 150mm long by 50mm diameter can be broken by hand with difficulty.
High Strength	H	20 to 60	1 to 3	A piece of core 150mm long by 50mm diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer.
Very High Strength	VH	60 to 200	3 to 10	Hand specimen breaks with pick after more than one blow; rock rings under hammer.
Extremely High Strength	EH	> 200	> 10	Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.

Appendix C: Laboratory Reports & COC Documents

CERTIFICATE OF ANALYSIS 191478

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor
Address	PO Box 976, North Ryde BC, NSW, 1670

Sample Details

Your Reference	<u>E31452K, Bowral</u>
Number of Samples	74 Soil, 3 Material, 1 Water
Date samples received	11/05/2018
Date completed instructions received	11/05/2018

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	18/05/2018
Date of Issue	22/05/2018
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Jessica Hie
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Jacinta Hurst, Laboratory Manager, Sydney
 Jeremy Faircloth, Organics Supervisor
 Ken Nguyen, Senior Chemist
 Leon Ow, Chemist
 Lucy Zhu, Asbestos Analyst
 Matthew Tang, Asbestos Analyst
 Nancy Zhang, Assistant Lab Manager
 Nick Sarlamis, Inorganics Supervisor
 Priya Samarawickrama, Senior Chemist
 Steven Luong, Senior Chemist

Authorised By



Jacinta Hurst, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-1	191478-2	191478-3	191478-4	191478-5
Your Reference	UNITS	BH01	BH01	BH02	BH02	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.4-0.6	0.14-0.3
Date Sampled		10/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	101	106	103	104

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-7	191478-9	191478-10	191478-11	191478-12
Your Reference	UNITS	BH03	BH04	BH04	BH05	BH05
Depth		1.7-1.95	0.17-0.3	0.4-0.6	0.0-0.2	0.5-0.7
Date Sampled		09/05/2018	11/05/2018	11/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	100	95	106	104

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-13	191478-14	191478-15	191478-17	191478-19
Your Reference	UNITS	BH06	BH06	BH07	BH07	BH08
Depth		0.15-0.25	0.4-0.6	0.1-0.2	0.5-0.7	0.25-0.35
Date Sampled		10/05/2018	10/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	101	108	98	102

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-20	191478-22	191478-23	191478-24	191478-25
Your Reference	UNITS	BH08	BH09	BH09	BH10	BH10
Depth		0.5-0.6	0.2-0.4	0.6-0.8	0.0-0.15	0.15-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	100	105	103	98

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-26	191478-27	191478-29	191478-30	191478-31
Your Reference	UNITS	BH11	BH11	BH12	BH13	BH14
Depth		0.0-0.2	0.5-0.7	0.0-0.15	0.0-0.2	0.05-0.15
Date Sampled		10/05/2018	10/05/2018	08/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	%	103	100	108	109	104

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-33	191478-35	191478-36	191478-37	191478-38
Your Reference	UNITS	BH14	BH15	BH15	BH16	BH17
Depth		0.4-0.6	0.0-0.2	1.0-1.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	%	101	103	102	107	105

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-39	191478-40	191478-41	191478-42	191478-43
Your Reference	UNITS	BH17	BH18	BH18	BH19	BH19
Depth		0.85-1.0	0.0-0.3	0.5-0.7	0.0-0.2	0.4-0.6
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	104	99	109	101

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	103	100	101	103

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-50	191478-51	191478-52	191478-53	191478-54
Your Reference	UNITS	BH23	BH24	BH25	BH25	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.5-0.7	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	105	101	104	107

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-56	191478-57	191478-58	191478-59	191478-61
Your Reference	UNITS	BH26	BH27	BH27	BH28	BH28
Depth		1.5-1.7	0.05-0.3	0.5-0.7	0.1-0.25	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	109	98	106	98

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-62	191478-64	191478-65	191478-66	191478-67
Your Reference	UNITS	BH29	BH29	BH30	BH30	BH31
Depth		0.0-0.2	1.7-1.95	0.0-0.2	0.3-0.5	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	18/05/2018	18/05/2018	18/05/2018	18/05/2018	18/05/2018
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	%	103	103	103	106	109

vTRH(C6-C10)/BTEXN in Soil

Our Reference		191478-70	191478-71	191478-76
Your Reference	UNITS	DUPKT1	DUPKT2	TB
Depth		-	-	-
Date Sampled		09/05/2018	09/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	14/05/2018
Date analysed	-	18/05/2018	18/05/2018	14/05/2018
TRH C ₆ - C ₉	mg/kg	<25	<25	[NA]
TRH C ₆ - C ₁₀	mg/kg	<25	<25	[NA]
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	[NA]
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	[NA]
Total +ve Xylenes	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	108	106

svTRH (C10-C40) in Soil

Our Reference		191478-1	191478-2	191478-3	191478-4	191478-5
Your Reference	UNITS	BH01	BH01	BH02	BH02	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.4-0.6	0.14-0.3
Date Sampled		10/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	15/05/2018	15/05/2018	15/05/2018	16/05/2018	16/05/2018
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
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	94	95	93	97

svTRH (C10-C40) in Soil

Our Reference		191478-7	191478-9	191478-10	191478-11	191478-12
Your Reference	UNITS	BH03	BH04	BH04	BH05	BH05
Depth		1.7-1.95	0.17-0.3	0.4-0.6	0.0-0.2	0.5-0.7
Date Sampled		09/05/2018	11/05/2018	11/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	%	96	94	97	96	97

svTRH (C10-C40) in Soil

Our Reference		191478-13	191478-14	191478-15	191478-17	191478-19
Your Reference	UNITS	BH06	BH06	BH07	BH07	BH08
Depth		0.15-0.25	0.4-0.6	0.1-0.2	0.5-0.7	0.25-0.35
Date Sampled		10/05/2018	10/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	95	94	93	94

svTRH (C10-C40) in Soil

Our Reference		191478-20	191478-22	191478-23	191478-24	191478-25
Your Reference	UNITS	BH08	BH09	BH09	BH10	BH10
Depth		0.5-0.6	0.2-0.4	0.6-0.8	0.0-0.15	0.15-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	93	94	97	95

svTRH (C10-C40) in Soil

Our Reference		191478-26	191478-27	191478-29	191478-30	191478-31
Your Reference	UNITS	BH11	BH11	BH12	BH13	BH14
Depth		0.0-0.2	0.5-0.7	0.0-0.15	0.0-0.2	0.05-0.15
Date Sampled		10/05/2018	10/05/2018	08/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	110
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	110
Surrogate o-Terphenyl	%	94	94	94	97	95

svTRH (C10-C40) in Soil

Our Reference		191478-33	191478-35	191478-36	191478-37	191478-38
Your Reference	UNITS	BH14	BH15	BH15	BH16	BH17
Depth		0.4-0.6	0.0-0.2	1.0-1.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	120	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	120	<50	<50	<50	<50
Surrogate o-Terphenyl	%	96	95	95	124	93

svTRH (C10-C40) in Soil

Our Reference		191478-39	191478-40	191478-41	191478-42	191478-43
Your Reference	UNITS	BH17	BH18	BH18	BH19	BH19
Depth		0.85-1.0	0.0-0.3	0.5-0.7	0.0-0.2	0.4-0.6
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	140	<100	140	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	140	<50	140	<50
Surrogate o-Terphenyl	%	88	93	88	94	90

svTRH (C10-C40) in Soil

Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	87	90	90	91

svTRH (C10-C40) in Soil

Our Reference		191478-50	191478-51	191478-52	191478-53	191478-54
Your Reference	UNITS	BH23	BH24	BH25	BH25	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.5-0.7	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	100	<50	<50	<50
Surrogate o-Terphenyl	%	89	97	92	94	93

svTRH (C10-C40) in Soil

Our Reference		191478-56	191478-57	191478-58	191478-59	191478-61
Your Reference	UNITS	BH26	BH27	BH27	BH28	BH28
Depth		1.5-1.7	0.05-0.3	0.5-0.7	0.1-0.25	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	%	89	94	92	88	93

svTRH (C10-C40) in Soil

Our Reference		191478-62	191478-64	191478-65	191478-66	191478-67
Your Reference	UNITS	BH29	BH29	BH30	BH30	BH31
Depth		0.0-0.2	1.7-1.95	0.0-0.2	0.3-0.5	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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
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	89	93	93

svTRH (C10-C40) in Soil

Our Reference		191478-70	191478-71
Your Reference	UNITS	DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018
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
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	%	91	91

PAHs in Soil						
Our Reference		191478-1	191478-2	191478-3	191478-4	191478-5
Your Reference	UNITS	BH01	BH01	BH02	BH02	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.4-0.6	0.14-0.3
Date Sampled		10/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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 <i>p</i> -Terphenyl-d14	%	95	92	96	96	94

PAHs in Soil						
Our Reference		191478-7	191478-9	191478-10	191478-11	191478-12
Your Reference	UNITS	BH03	BH04	BH04	BH05	BH05
Depth		1.7-1.95	0.17-0.3	0.4-0.6	0.0-0.2	0.5-0.7
Date Sampled		09/05/2018	11/05/2018	11/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.3	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.5	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.6	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.6	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.4	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.2	<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	<0.05	<0.05	3.6	<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	0.6	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	0.6	<0.5
Surrogate p-Terphenyl-d14	%	98	95	94	95	97

PAHs in Soil						
Our Reference		191478-13	191478-14	191478-15	191478-17	191478-19
Your Reference	UNITS	BH06	BH06	BH07	BH07	BH08
Depth		0.15-0.25	0.4-0.6	0.1-0.2	0.5-0.7	0.25-0.35
Date Sampled		10/05/2018	10/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.2	<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	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.3	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.3	<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	<0.05	<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	2.8	<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	%	94	96	97	94	95

PAHs in Soil						
Our Reference		191478-20	191478-22	191478-23	191478-24	191478-25
Your Reference	UNITS	BH08	BH09	BH09	BH10	BH10
Depth		0.5-0.6	0.2-0.4	0.6-0.8	0.0-0.15	0.15-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	%	97	94	94	99	95

PAHs in Soil						
Our Reference		191478-26	191478-27	191478-29	191478-30	191478-31
Your Reference	UNITS	BH11	BH11	BH12	BH13	BH14
Depth		0.0-0.2	0.5-0.7	0.0-0.15	0.0-0.2	0.05-0.15
Date Sampled		10/05/2018	10/05/2018	08/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.2	<0.1	<0.1	0.4	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Fluoranthene	mg/kg	0.3	<0.1	<0.1	0.7	<0.1
Pyrene	mg/kg	0.3	<0.1	0.1	0.7	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	0.4	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	0.4	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	0.5	<0.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	0.06	0.3	<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	2.0	<0.05	0.2	3.7	<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	95	96	98	97

PAHs in Soil						
Our Reference		191478-33	191478-35	191478-36	191478-37	191478-38
Your Reference	UNITS	BH14	BH15	BH15	BH16	BH17
Depth		0.4-0.6	0.0-0.2	1.0-1.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.3
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	0.1	0.6
Pyrene	mg/kg	<0.1	0.1	<0.1	0.1	0.6
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	0.6
Benzo(a)pyrene	mg/kg	<0.05	0.05	<0.05	0.09	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
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	0.2	<0.05	0.3	3.4
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	0.6
Surrogate p-Terphenyl-d14	%	95	95	97	95	98

PAHs in Soil						
Our Reference		191478-39	191478-40	191478-41	191478-42	191478-43
Your Reference	UNITS	BH17	BH18	BH18	BH19	BH19
Depth		0.85-1.0	0.0-0.3	0.5-0.7	0.0-0.2	0.4-0.6
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	1.2	<0.1	0.3	<0.1
Anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	1.4	<0.1	0.4	<0.1
Pyrene	mg/kg	<0.1	1.5	<0.1	0.4	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.8	<0.1	0.2	<0.1
Chrysene	mg/kg	<0.1	0.8	<0.1	0.2	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	1	<0.2	0.4	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.75	0.05	0.2	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.4	<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	9.1	0.05	2.3	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	1.1	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	1.1	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	1.1	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	96	98	95	99	96

PAHs in Soil						
Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.9	<0.1	0.3	<0.1	<0.1
Anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.0	<0.1	0.4	<0.1	<0.1
Pyrene	mg/kg	1.1	<0.1	0.4	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.5	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	0.6	<0.1	0.2	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.8	<0.2	0.4	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.53	<0.05	0.3	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.3	<0.1	0.2	<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	0.2	<0.1	<0.1
Total +ve PAH's	mg/kg	6.2	<0.05	2.6	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	0.7	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	0.8	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.8	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	97	95	94	94

PAHs in Soil						
Our Reference		191478-50	191478-51	191478-52	191478-53	191478-54
Your Reference	UNITS	BH23	BH24	BH25	BH25	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.5-0.7	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	1.5	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.3	1.7	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.3	1.8	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.2	0.9	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.2	1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.3	1	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.2	0.87	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.4	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	0.5	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.6	11	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	1.3	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	1.3	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	1.3	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	98	96	97	96	91

PAHs in Soil						
Our Reference		191478-56	191478-57	191478-58	191478-59	191478-61
Your Reference	UNITS	BH26	BH27	BH27	BH28	BH28
Depth		1.5-1.7	0.05-0.3	0.5-0.7	0.1-0.25	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	%	96	96	98	93	97

PAHs in Soil						
Our Reference		191478-62	191478-64	191478-65	191478-66	191478-67
Your Reference	UNITS	BH29	BH29	BH30	BH30	BH31
Depth		0.0-0.2	1.7-1.95	0.0-0.2	0.3-0.5	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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	0.4	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	<0.1	0.6	<0.1	0.2
Pyrene	mg/kg	0.2	<0.1	0.7	<0.1	0.3
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.4	<0.1	0.1
Chrysene	mg/kg	0.1	<0.1	0.4	<0.1	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.2	<0.2	0.6	<0.2	0.2
Benzo(a)pyrene	mg/kg	0.1	<0.05	0.4	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.2	<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	1.2	<0.05	3.9	<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	0.6	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	99	96	97	98	94

PAHs in Soil				
Our Reference		191478-70	191478-71	191478-79
Your Reference	UNITS	DUPKT1	DUPKT2	BH05 - [TRIPLICATE]
Depth		-	-	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	17/05/2018
Date analysed	-	16/05/2018	16/05/2018	18/05/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1
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	0.4
Anthracene	mg/kg	<0.1	<0.1	0.1
Fluoranthene	mg/kg	<0.1	0.2	0.6
Pyrene	mg/kg	<0.1	0.2	0.7
Benzo(a)anthracene	mg/kg	<0.1	0.1	0.4
Chrysene	mg/kg	<0.1	0.1	0.4
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	0.2	0.7
Benzo(a)pyrene	mg/kg	<0.05	0.1	0.4
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	0.2
Total +ve PAH's	mg/kg	<0.05	1.1	4.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	0.6
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	0.6
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	0.7
Surrogate <i>p</i> -Terphenyl-d14	%	96	96	106

Organochlorine Pesticides in soil						
Our Reference		191478-1	191478-2	191478-3	191478-5	191478-7
Your Reference	UNITS	BH01	BH01	BH02	BH03	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.14-0.3	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	17/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	116	100	120	119	115

Organochlorine Pesticides in soil

Our Reference		191478-9	191478-11	191478-13	191478-14	191478-15
Your Reference	UNITS	BH04	BH05	BH06	BH06	BH07
Depth		0.17-0.3	0.0-0.2	0.15-0.25	0.4-0.6	0.1-0.2
Date Sampled		11/05/2018	10/05/2018	10/05/2018	10/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	118	111	111	113	119

Organochlorine Pesticides in soil

Our Reference		191478-17	191478-19	191478-22	191478-24	191478-26
Your Reference	UNITS	BH07	BH08	BH09	BH10	BH11
Depth		0.5-0.7	0.25-0.35	0.2-0.4	0.0-0.15	0.0-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	112	125	106	107	110

Organochlorine Pesticides in soil

Our Reference		191478-29	191478-30	191478-31	191478-33	191478-35
Your Reference	UNITS	BH12	BH13	BH14	BH14	BH15
Depth		0.0-0.15	0.0-0.2	0.05-0.15	0.4-0.6	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	16/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	113	108	108	113	103

Organochlorine Pesticides in soil						
Our Reference		191478-37	191478-38	191478-39	191478-40	191478-42
Your Reference	UNITS	BH16	BH17	BH17	BH18	BH19
Depth		0.0-0.2	0.0-0.2	0.85-1.0	0.0-0.3	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	08/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	105	109	107	113	116

Organochlorine Pesticides in soil

Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	116	108	112	111	105

Organochlorine Pesticides in soil

Our Reference		191478-50	191478-51	191478-52	191478-54	191478-56
Your Reference	UNITS	BH23	BH24	BH25	BH26	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.05-0.2	1.5-1.7
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	16/05/2018	16/05/2018	16/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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	3.2	<0.1	<0.1	<0.1
Endrin	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
Endosulfan II	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
Endrin Aldehyde	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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	116	110	101	101	99

Organochlorine Pesticides in soil

Our Reference		191478-57	191478-59	191478-62	191478-65	191478-67
Your Reference	UNITS	BH27	BH28	BH29	BH30	BH31
Depth		0.05-0.3	0.1-0.25	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	09/05/2018	09/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-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
beta-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
pp-DDD	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-DDT	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
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
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	105	103	103	101	101

Organochlorine Pesticides in soil			
Our Reference		191478-70	191478-71
Your Reference	UNITS	DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-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	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	100	100

PCBs in Soil						
Our Reference	UNITS	191478-1	191478-2	191478-3	191478-5	191478-7
Your Reference		BH01	BH01	BH02	BH03	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.14-0.3	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	17/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	116	100	120	119	115

PCBs in Soil						
Our Reference	UNITS	191478-9	191478-11	191478-13	191478-14	191478-15
Your Reference		BH04	BH05	BH06	BH06	BH07
Depth		0.17-0.3	0.0-0.2	0.15-0.25	0.4-0.6	0.1-0.2
Date Sampled		11/05/2018	10/05/2018	10/05/2018	10/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	118	111	111	113	119

PCBs in Soil						
Our Reference	UNITS	191478-17	191478-19	191478-22	191478-24	191478-26
Your Reference		BH07	BH08	BH09	BH10	BH11
Depth		0.5-0.7	0.25-0.35	0.2-0.4	0.0-0.15	0.0-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	112	125	106	107	110

PCBs in Soil						
Our Reference	UNITS	191478-29	191478-30	191478-31	191478-33	191478-35
Your Reference		BH12	BH13	BH14	BH14	BH15
Depth		0.0-0.15	0.0-0.2	0.05-0.15	0.4-0.6	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	16/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	113	108	108	113	103

PCBs in Soil						
Our Reference	UNITS	191478-37	191478-38	191478-39	191478-40	191478-42
Your Reference		BH16	BH17	BH17	BH18	BH19
Depth		0.0-0.2	0.0-0.2	0.85-1.0	0.0-0.3	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	08/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	105	109	107	113	116

PCBs in Soil						
Our Reference	UNITS	191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference		BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
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 TCLMX	%	116	108	112	111	105

PCBs in Soil						
Our Reference	UNITS	191478-50	191478-51	191478-52	191478-54	191478-56
Your Reference		BH23	BH24	BH25	BH26	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.05-0.2	1.5-1.7
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018	16/05/2018	16/05/2018	16/05/2018
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 TCLMX	%	116	110	101	101	99

PCBs in Soil						
Our Reference	UNITS	191478-57	191478-59	191478-62	191478-65	191478-67
Your Reference		BH27	BH28	BH29	BH30	BH31
Depth		0.05-0.3	0.1-0.25	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	09/05/2018	09/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
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 TCLMX	%	105	103	103	101	101

PCBs in Soil			
Our Reference		191478-70	191478-71
Your Reference	UNITS	DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018
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 TCLMX	%	100	100

Acid Extractable metals in soil

Our Reference		191478-1	191478-2	191478-3	191478-4	191478-5
Your Reference	UNITS	BH01	BH01	BH02	BH02	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.4-0.6	0.14-0.3
Date Sampled		10/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	6	<4	[NA]	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	[NA]	<0.4
Chromium	mg/kg	2	53	2	[NA]	1
Copper	mg/kg	190	10	220	[NA]	190
Lead	mg/kg	6	11	7	9	7
Mercury	mg/kg	<0.1	<0.1	<0.1	[NA]	<0.1
Nickel	mg/kg	6	7	6	[NA]	4
Zinc	mg/kg	35	15	40	[NA]	33

Acid Extractable metals in soil

Our Reference		191478-7	191478-9	191478-10	191478-11	191478-12
Your Reference	UNITS	BH03	BH04	BH04	BH05	BH05
Depth		1.7-1.95	0.17-0.3	0.4-0.6	0.0-0.2	0.5-0.7
Date Sampled		09/05/2018	11/05/2018	11/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4	<4	5	[NA]
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	[NA]
Chromium	mg/kg	15	25	46	16	[NA]
Copper	mg/kg	9	8	7	13	[NA]
Lead	mg/kg	13	11	10	26	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	[NA]
Nickel	mg/kg	<1	5	6	5	[NA]
Zinc	mg/kg	3	14	10	120	[NA]

Acid Extractable metals in soil

Our Reference		191478-13	191478-14	191478-15	191478-17	191478-19
Your Reference	UNITS	BH06	BH06	BH07	BH07	BH08
Depth		0.15-0.25	0.4-0.6	0.1-0.2	0.5-0.7	0.25-0.35
Date Sampled		10/05/2018	10/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	38	5	29	33
Copper	mg/kg	21	4	20	4	6
Lead	mg/kg	8	9	2	9	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	5	8	5	5
Zinc	mg/kg	23	7	14	7	8

Acid Extractable metals in soil

Our Reference		191478-20	191478-22	191478-23	191478-24	191478-25
Your Reference	UNITS	BH08	BH09	BH09	BH10	BH10
Depth		0.5-0.6	0.2-0.4	0.6-0.8	0.0-0.15	0.15-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4	<4	<4	[NA]
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	[NA]
Chromium	mg/kg	36	17	32	6	[NA]
Copper	mg/kg	6	6	6	6	[NA]
Lead	mg/kg	11	12	9	25	47
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	[NA]
Nickel	mg/kg	6	3	4	2	[NA]
Zinc	mg/kg	8	8	6	60	[NA]

Acid Extractable metals in soil

Our Reference		191478-26	191478-27	191478-29	191478-30	191478-31
Your Reference	UNITS	BH11	BH11	BH12	BH13	BH14
Depth		0.0-0.2	0.5-0.7	0.0-0.15	0.0-0.2	0.05-0.15
Date Sampled		10/05/2018	10/05/2018	08/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	4	[NA]	<4	4	<4
Cadmium	mg/kg	<0.4	[NA]	<0.4	<0.4	<0.4
Chromium	mg/kg	16	[NA]	130	38	27
Copper	mg/kg	19	[NA]	28	12	35
Lead	mg/kg	560	19	38	43	3
Mercury	mg/kg	0.9	[NA]	<0.1	<0.1	<0.1
Nickel	mg/kg	6	[NA]	10	12	51
Zinc	mg/kg	260	[NA]	110	61	27

Acid Extractable metals in soil

Our Reference		191478-33	191478-35	191478-36	191478-37	191478-38
Your Reference	UNITS	BH14	BH15	BH15	BH16	BH17
Depth		0.4-0.6	0.0-0.2	1.0-1.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	4	<4	[NA]	<4	<4
Cadmium	mg/kg	<0.4	<0.4	[NA]	<0.4	<0.4
Chromium	mg/kg	51	15	[NA]	33	33
Copper	mg/kg	11	6	[NA]	18	66
Lead	mg/kg	14	35	13	33	180
Mercury	mg/kg	<0.1	<0.1	[NA]	<0.1	0.3
Nickel	mg/kg	8	3	[NA]	19	9
Zinc	mg/kg	16	21	[NA]	58	410

Acid Extractable metals in soil

Our Reference		191478-39	191478-40	191478-41	191478-42	191478-43
Your Reference	UNITS	BH17	BH18	BH18	BH19	BH19
Depth		0.85-1.0	0.0-0.3	0.5-0.7	0.0-0.2	0.4-0.6
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	6	<4	[NA]	<4	<4
Cadmium	mg/kg	<0.4	<0.4	[NA]	<0.4	<0.4
Chromium	mg/kg	35	19	[NA]	26	48
Copper	mg/kg	14	14	[NA]	7	4
Lead	mg/kg	13	66	44	93	13
Mercury	mg/kg	<0.1	0.2	[NA]	0.2	<0.1
Nickel	mg/kg	5	5	[NA]	4	8
Zinc	mg/kg	36	45	[NA]	39	9

Acid Extractable metals in soil

Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4	<4	24	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	32	44	27	24	320
Copper	mg/kg	11	4	32	12	12
Lead	mg/kg	18	13	34	10	18
Mercury	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Nickel	mg/kg	5	6	6	<1	190
Zinc	mg/kg	19	8	99	8	30

Acid Extractable metals in soil

Our Reference		191478-50	191478-51	191478-52	191478-53	191478-54
Your Reference	UNITS	BH23	BH24	BH25	BH25	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.5-0.7	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4	7	[NA]	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	[NA]	<0.4
Chromium	mg/kg	40	50	50	[NA]	18
Copper	mg/kg	4	10	5	[NA]	81
Lead	mg/kg	17	32	11	12	2
Mercury	mg/kg	<0.1	<0.1	<0.1	[NA]	<0.1
Nickel	mg/kg	13	19	3	[NA]	46
Zinc	mg/kg	16	31	8	[NA]	31

Acid Extractable metals in soil

Our Reference		191478-56	191478-57	191478-58	191478-59	191478-61
Your Reference	UNITS	BH26	BH27	BH27	BH28	BH28
Depth		1.5-1.7	0.05-0.3	0.5-0.7	0.1-0.25	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	7	<4	[NA]	<4	[NA]
Cadmium	mg/kg	<0.4	<0.4	[NA]	<0.4	[NA]
Chromium	mg/kg	10	17	[NA]	16	[NA]
Copper	mg/kg	31	37	[NA]	30	[NA]
Lead	mg/kg	13	2	12	17	12
Mercury	mg/kg	<0.1	<0.1	[NA]	<0.1	[NA]
Nickel	mg/kg	4	56	[NA]	52	[NA]
Zinc	mg/kg	18	29	[NA]	31	[NA]

Acid Extractable metals in soil

Our Reference		191478-62	191478-64	191478-65	191478-66	191478-67
Your Reference	UNITS	BH29	BH29	BH30	BH30	BH31
Depth		0.0-0.2	1.7-1.95	0.0-0.2	0.3-0.5	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	[NA]	<4	<4	5
Cadmium	mg/kg	<0.4	[NA]	<0.4	<0.4	<0.4
Chromium	mg/kg	13	[NA]	29	23	20
Copper	mg/kg	12	[NA]	7	11	9
Lead	mg/kg	20	9	20	11	20
Mercury	mg/kg	<0.1	[NA]	<0.1	<0.1	0.1
Nickel	mg/kg	3	[NA]	4	4	3
Zinc	mg/kg	22	[NA]	15	8	63

Acid Extractable metals in soil

Our Reference		191478-70	191478-71
Your Reference	UNITS	DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	1	18
Copper	mg/kg	180	11
Lead	mg/kg	7	22
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	4	3
Zinc	mg/kg	32	22

Misc Soil - Inorg

Our Reference		191478-1	191478-2	191478-3	191478-5	191478-7
Your Reference	UNITS	BH01	BH01	BH02	BH03	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.14-0.3	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-9	191478-11	191478-13	191478-14	191478-15
Your Reference	UNITS	BH04	BH05	BH06	BH06	BH07
Depth		0.17-0.3	0.0-0.2	0.15-0.25	0.4-0.6	0.1-0.2
Date Sampled		11/05/2018	10/05/2018	10/05/2018	10/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-17	191478-19	191478-22	191478-24	191478-26
Your Reference	UNITS	BH07	BH08	BH09	BH10	BH11
Depth		0.5-0.7	0.25-0.35	0.2-0.4	0.0-0.15	0.0-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-29	191478-30	191478-31	191478-33	191478-35
Your Reference	UNITS	BH12	BH13	BH14	BH14	BH15
Depth		0.0-0.15	0.0-0.2	0.05-0.15	0.4-0.6	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-37	191478-38	191478-39	191478-40	191478-42
Your Reference	UNITS	BH16	BH17	BH17	BH18	BH19
Depth		0.0-0.2	0.0-0.2	0.85-1.0	0.0-0.3	0.0-0.2
Date Sampled		08/05/2018	08/05/2018	08/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference	UNITS	BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-50	191478-51	191478-52	191478-54	191478-56
Your Reference	UNITS	BH23	BH24	BH25	BH26	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.05-0.2	1.5-1.7
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg

Our Reference		191478-57	191478-59	191478-62	191478-65	191478-67
Your Reference	UNITS	BH27	BH28	BH29	BH30	BH31
Depth		0.05-0.3	0.1-0.25	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	09/05/2018	09/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218	16/05/218	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg			
Our Reference		191478-70	191478-71
Your Reference	UNITS	DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	15/05/2018	15/05/2018
Date analysed	-	16/05/218	16/05/218
Total Phenolics (as Phenol)	mg/kg	<5	<5

Misc Inorg - Soil			
Our Reference	UNITS	191478-5	191478-59
Your Reference		BH03	BH28
Depth		0.14-0.3	0.1-0.25
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	16/05/2018	16/05/2018
Date analysed	-	16/05/2018	16/05/2018
pH 1:5 soil:water	pH Units	9.3	9.2

Moisture						
Our Reference	UNITS	191478-1	191478-2	191478-3	191478-4	191478-5
Your Reference		BH01	BH01	BH02	BH02	BH03
Depth		0.05-0.3	0.35-0.55	0.05-0.2	0.4-0.6	0.14-0.3
Date Sampled		10/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	4.4	15	3.9	14	4.1

Moisture						
Our Reference	UNITS	191478-7	191478-9	191478-10	191478-11	191478-12
Your Reference		BH03	BH04	BH04	BH05	BH05
Depth		1.7-1.95	0.17-0.3	0.4-0.6	0.0-0.2	0.5-0.7
Date Sampled		09/05/2018	11/05/2018	11/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	16	18	18	8.0	13

Moisture						
Our Reference	UNITS	191478-13	191478-14	191478-15	191478-17	191478-19
Your Reference		BH06	BH06	BH07	BH07	BH08
Depth		0.15-0.25	0.4-0.6	0.1-0.2	0.5-0.7	0.25-0.35
Date Sampled		10/05/2018	10/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	9.8	18	8.1	19	16

Moisture						
Our Reference	UNITS	191478-20	191478-22	191478-23	191478-24	191478-25
Your Reference		BH08	BH09	BH09	BH10	BH10
Depth		0.5-0.6	0.2-0.4	0.6-0.8	0.0-0.15	0.15-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	20	15	17	21	23

Moisture						
Our Reference	UNITS	191478-26	191478-27	191478-29	191478-30	191478-31
Your Reference		BH11	BH11	BH12	BH13	BH14
Depth		0.0-0.2	0.5-0.7	0.0-0.15	0.0-0.2	0.05-0.15
Date Sampled		10/05/2018	10/05/2018	08/05/2018	08/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	9.2	14	6.2	7.0	5.7

Moisture						
Our Reference	UNITS	191478-33	191478-35	191478-36	191478-37	191478-38
Your Reference		BH14	BH15	BH15	BH16	BH17
Depth		0.4-0.6	0.0-0.2	1.0-1.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	11	8.3	18	15	21

Moisture						
Our Reference	UNITS	191478-39	191478-40	191478-41	191478-42	191478-43
Your Reference		BH17	BH18	BH18	BH19	BH19
Depth		0.85-1.0	0.0-0.3	0.5-0.7	0.0-0.2	0.4-0.6
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	25	12	14	9.4	13

Moisture						
Our Reference	UNITS	191478-44	191478-45	191478-46	191478-48	191478-49
Your Reference		BH20	BH20	BH21	BH21	BH22
Depth		0.0-0.2	0.4-0.6	0.0-0.2	1.7-1.95	0.0-0.15
Date Sampled		10/05/2018	10/05/2018	09/05/2018	09/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	9.6	14	15	18	8.4

Moisture						
Our Reference	UNITS	191478-50	191478-51	191478-52	191478-53	191478-54
Your Reference		BH23	BH24	BH25	BH25	BH26
Depth		0.0-0.1	0.0-0.1	0.0-0.2	0.5-0.7	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	8.2	11	10	14	5.1

Moisture						
Our Reference	UNITS	191478-56	191478-57	191478-58	191478-59	191478-61
Your Reference		BH26	BH27	BH27	BH28	BH28
Depth		1.5-1.7	0.05-0.3	0.5-0.7	0.1-0.25	1.7-1.95
Date Sampled		10/05/2018	10/05/2018	10/05/2018	09/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	17	3.5	21	4.9	17

Moisture						
Our Reference	UNITS	191478-62	191478-64	191478-65	191478-66	191478-67
Your Reference		BH29	BH29	BH30	BH30	BH31
Depth		0.0-0.2	1.7-1.95	0.0-0.2	0.3-0.5	0.0-0.2
Date Sampled		09/05/2018	09/05/2018	10/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	15/05/2018	15/05/2018	15/05/2018	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018	16/05/2018	16/05/2018	16/05/2018
Moisture	%	16	18	11	15	8.2

Moisture			
Our Reference	UNITS	191478-70	191478-71
Your Reference		DUPKT1	DUPKT2
Depth		-	-
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	15/05/2018	15/05/2018
Date analysed	-	16/05/2018	16/05/2018
Moisture	%	3.8	9.2

Asbestos ID - soils						
Our Reference	UNITS	191478-1	191478-3	191478-5	191478-9	191478-11
Your Reference		BH01	BH02	BH03	BH04	BH05
Depth		0.05-0.3	0.05-0.2	0.14-0.3	0.17-0.3	0.0-0.2
Date Sampled		10/05/2018	10/05/2018	09/05/2018	11/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 40g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils

Our Reference		191478-13	191478-15	191478-19	191478-22	191478-24
Your Reference	UNITS	BH06	BH07	BH08	BH09	BH10
Depth		0.15-0.25	0.1-0.2	0.25-0.35	0.2-0.4	0.0-0.15
Date Sampled		10/05/2018	11/05/2018	11/05/2018	11/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 20g	Approx. 40g	Approx. 25g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils

Our Reference		191478-26	191478-29	191478-31	191478-35	191478-37
Your Reference	UNITS	BH11	BH12	BH14	BH15	BH16
Depth		0.0-0.2	0.0-0.15	0.05-0.15	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	08/05/2018	10/05/2018	10/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 40g	Approx. 35g	Approx. 45g	Approx. 25g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	191478-38	191478-40	191478-42	191478-44	191478-46
Your Reference		BH17	BH18	BH19	BH20	BH21
Depth		0.0-0.2	0.0-0.3	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		08/05/2018	10/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 25g	Approx. 20g	Approx. 15g	Approx. 25g	Approx. 15g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	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

Asbestos ID - soils

Our Reference		191478-49	191478-50	191478-51	191478-52	191478-54
Your Reference	UNITS	BH22	BH23	BH24	BH25	BH26
Depth		0.0-0.15	0.0-0.1	0.0-0.1	0.0-0.2	0.05-0.2
Date Sampled		08/05/2018	08/05/2018	08/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 15g	Approx. 25g	Approx. 15g	Approx. 35g	Approx. 35g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	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

Asbestos ID - soils

Our Reference		191478-57	191478-59	191478-62	191478-65	191478-67
Your Reference	UNITS	BH27	BH28	BH29	BH30	BH31
Depth		0.05-0.3	0.1-0.25	0.0-0.2	0.0-0.2	0.0-0.2
Date Sampled		10/05/2018	09/05/2018	09/05/2018	10/05/2018	10/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	17/05/2018	17/05/2018	17/05/2018	17/05/2018	17/05/2018
Sample mass tested	g	Approx. 50g	Approx. 40g	Approx. 15g	Approx. 20g	Approx. 20g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	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

Asbestos ID - materials				
Our Reference	UNITS	191478-73	191478-74	191478-75
Your Reference		SF1	SF2	BH31-SF
Depth		-	-	-
Date Sampled		10/05/2018	10/05/2018	10/05/2018
Type of sample		Material	Material	Material
Date analysed	-	15/05/2018	15/05/2018	15/05/2018
Mass / Dimension of Sample	-	40x37x5mm	42x30x5mm	27x25x5mm
Sample Description	-	Grey compressed fibre cement material	Grey compressed fibre cement material	Beige compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected
		Amosite asbestos detected	Amosite asbestos detected	Amosite asbestos detected
		Crocidolite asbestos detected	Crocidolite asbestos detected	

CEC			
Our Reference		191478-5	191478-59
Your Reference	UNITS	BH03	BH28
Depth		0.14-0.3	0.1-0.25
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	17/05/2018	17/05/2018
Date analysed	-	17/05/2018	17/05/2018
Exchangeable Ca	meq/100g	21	17
Exchangeable K	meq/100g	0.2	1.2
Exchangeable Mg	meq/100g	4.0	4.5
Exchangeable Na	meq/100g	0.22	0.50
Cation Exchange Capacity	meq/100g	25	24

Clay 50-120g			
Our Reference	UNITS	191478-5	191478-59
Your Reference		BH03	BH28
Depth		0.14-0.3	0.1-0.25
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	16/05/2018	16/05/2018
Date analysed	-	17/05/2018	17/05/2018
Clay in soils <2µm	% (w/w)	5	7

Micro testing in soil					
Our Reference		191478-9	191478-15	191478-18	191478-21
Your Reference	UNITS	BH04	BH07	BH08	BH09
Depth		0.17-0.3	0.1-0.2	0.13-0.25	0.14-0.2
Date Sampled		11/05/2018	11/05/2018	11/05/2018	11/05/2018
Type of sample		Soil	Soil	Soil	Soil
Date testing started	-	12/05/2018	12/05/2018	12/05/2018	12/05/2018
Date testing completed	-	12/05/2018	12/05/2018	12/05/2018	12/05/2018
Faecal Coliforms in soil	MPN/100g	<200	<200	<200	<200
Total Coliforms in soil	MPN/100g	<200	<200	200	<200

BTEX in Water		
Our Reference	UNITS	191478-77
Your Reference		FR
Depth		-
Date Sampled		11/05/2018
Type of sample		Water
Date extracted	-	14/05/2018
Date analysed	-	14/05/2018
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Surrogate Dibromofluoromethane	%	104
Surrogate toluene-d8	%	94
Surrogate 4-BFB	%	95

Method ID	Methodology Summary
AS1289.3.6.3	Determination Particle Size Analysis using AS1289.3.6.3 and AS1289.3.6.1 and in house method INORG-107. Clay fraction at <2µm reported.
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.
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
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-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-009	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	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-003	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-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's. 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-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-006	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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-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-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	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)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	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)-BTX 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-5	191478-2
Date extracted	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			18/05/2018	1	18/05/2018	18/05/2018		18/05/2018	18/05/2018
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	1	<25	<25	0	88	80
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	1	<25	<25	0	88	80
Benzene	mg/kg	0.2	Org-016	<0.2	1	<0.2	<0.2	0	85	77
Toluene	mg/kg	0.5	Org-016	<0.5	1	<0.5	<0.5	0	87	79
Ethylbenzene	mg/kg	1	Org-016	<1	1	<1	<1	0	88	80
m+p-xylene	mg/kg	2	Org-016	<2	1	<2	<2	0	89	81
o-Xylene	mg/kg	1	Org-016	<1	1	<1	<1	0	92	84
naphthalene	mg/kg	1	Org-014	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	113	1	105	110	5	108	93

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-24
Date extracted	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	18/05/2018	18/05/2018		18/05/2018	18/05/2018
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	11	<25	<25	0	88	93
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	11	<25	<25	0	88	93
Benzene	mg/kg	0.2	Org-016	[NT]	11	<0.2	<0.2	0	85	90
Toluene	mg/kg	0.5	Org-016	[NT]	11	<0.5	<0.5	0	87	92
Ethylbenzene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	89	94
m+p-xylene	mg/kg	2	Org-016	[NT]	11	<2	<2	0	89	94
o-Xylene	mg/kg	1	Org-016	[NT]	11	<1	<1	0	94	98
naphthalene	mg/kg	1	Org-014	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	11	106	101	5	105	102

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	191478-42
Date extracted	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	18/05/2018	18/05/2018		18/05/2018	18/05/2018
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	22	<25	<25	0	93	96
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	22	<25	<25	0	93	96
Benzene	mg/kg	0.2	Org-016	[NT]	22	<0.2	<0.2	0	90	92
Toluene	mg/kg	0.5	Org-016	[NT]	22	<0.5	<0.5	0	92	94
Ethylbenzene	mg/kg	1	Org-016	[NT]	22	<1	<1	0	94	97
m+p-xylene	mg/kg	2	Org-016	[NT]	22	<2	<2	0	94	98
o-Xylene	mg/kg	1	Org-016	[NT]	22	<1	<1	0	98	103
naphthalene	mg/kg	1	Org-014	[NT]	22	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	22	100	105	5	108	112

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]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	18/05/2018	18/05/2018		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	31	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	31	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	31	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	31	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	31	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	31	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	31	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	31	104	108	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]	41	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	41	18/05/2018	18/05/2018		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	41	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	41	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	41	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	41	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	41	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	41	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	41	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	41	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	41	99	105	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]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	18/05/2018	18/05/2018		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	51	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	51	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	51	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	51	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	51	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	51	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	51	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	51	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	51	105	104	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]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	18/05/2018	18/05/2018		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	59	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	59	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	59	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	59	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	59	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	59	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	59	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	59	106	104	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]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	18/05/2018	18/05/2018		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	[NT]	71	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	[NT]	71	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-016	[NT]	71	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-016	[NT]	71	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-016	[NT]	71	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-016	[NT]	71	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-016	[NT]	71	<1	<1	0	[NT]	[NT]
naphthalene	mg/kg	1	Org-014	[NT]	71	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	[NT]	71	108	101	7	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	191478-2
Date extracted	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			16/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	1	<50	<50	0	100	113
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	1	<100	<100	0	92	99
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	1	<100	<100	0	77	88
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	1	<50	<50	0	100	113
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	1	<100	<100	0	92	99
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	1	<100	<100	0	77	88
Surrogate o-Terphenyl	%		Org-003	94	1	94	96	2	98	94

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-24
Date extracted	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	16/05/2018	16/05/2018		16/05/2018	16/05/2018
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	11	<50	<50	0	111	119
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	11	<100	<100	0	95	106
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	11	<100	<100	0	92	91
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	11	<50	<50	0	111	119
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	11	<100	100	0	95	106
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	11	<100	<100	0	92	91
Surrogate o-Terphenyl	%		Org-003	[NT]	11	96	95	1	103	97

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	191478-42
Date extracted	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	16/05/2018	16/05/2018		16/05/2018	16/05/2018
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	22	<50	<50	0	104	100
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	22	<100	<100	0	90	89
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	22	<100	<100	0	77	103
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	22	<50	<50	0	104	100
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	22	<100	<100	0	90	89
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	22	<100	<100	0	77	103
Surrogate o-Terphenyl	%		Org-003	[NT]	22	93	94	1	103	94

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	16/05/2018	16/05/2018		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	31	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	31	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	31	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	31	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	31	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	31	110	130	17	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	31	95	103	8	[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]	41	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	41	16/05/2018	16/05/2018		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	41	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	41	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	41	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	41	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]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	16/05/2018	16/05/2018		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	51	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	51	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	51	100	110	10	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	51	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	51	97	98	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]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	16/05/2018	16/05/2018		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	59	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	59	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	59	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	59	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	59	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	59	88	94	7	[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]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	16/05/2018	16/05/2018		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	[NT]	71	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	[NT]	71	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	[NT]	71	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-003	[NT]	71	91	92	1	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	191478-2
Date extracted	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			16/05/2018	1	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Naphthalene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	89
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	93	93
Phenanthrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	95	96
Anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	97	97
Pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	94	94
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	88	87
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-012	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	1	<0.05	<0.05	0	88	85
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	100	1	95	97	2	121	120

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-24
Date extracted	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Naphthalene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	91	90
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	11	<0.1	<0.1	0	95	91
Phenanthrene	mg/kg	0.1	Org-012	[NT]	11	0.3	0.4	29	98	94
Anthracene	mg/kg	0.1	Org-012	[NT]	11	0.1	0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	11	0.5	1.4	95	100	95
Pyrene	mg/kg	0.1	Org-012	[NT]	11	0.6	1.6	91	97	93
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	11	0.4	0.9	77	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	11	0.4	0.8	67	90	93
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-012	[NT]	11	0.6	1	50	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	11	0.4	0.86	73	85	95
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	11	0.2	0.4	67	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	11	<0.1	0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	11	0.2	0.6	100	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	11	95	98	3	125	93

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	191478-42
Date extracted	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Naphthalene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	95	93
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	98	95
Phenanthrene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	102	97
Anthracene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	103	94
Pyrene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	99	89
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	98	93
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	22	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	22	<0.05	<0.05	0	97	92
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	22	94	95	1	128	118

QUALITY CONTROL: PAHs in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	16/05/2018	16/05/2018		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	31	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	31	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	31	97	101	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]	41	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	41	16/05/2018	16/05/2018		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	41	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	41	0.05	0.06	18	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	41	<0.1	<0.1	0	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d14	%		Org-012	[NT]	41	95	97	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]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	16/05/2018	16/05/2018		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	51	0.2	0.2	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	51	0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	51	1.5	1.4	7	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	51	0.3	0.2	40	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	51	1.7	1.6	6	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	51	1.8	1.6	12	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	51	0.9	0.8	12	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	51	1	0.9	11	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	51	1	1	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	51	0.87	0.74	16	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	51	0.4	0.4	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	51	0.2	0.1	67	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	51	0.5	0.5	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	51	96	96	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]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	16/05/2018	16/05/2018		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	59	<0.1	0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	59	<0.1	0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	59	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	59	<0.05	0.08	46	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	59	93	95	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]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	16/05/2018	16/05/2018		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-012	[NT]	71	0.1	0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	[NT]	71	0.2	0.2	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-012	[NT]	71	0.2	0.2	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	[NT]	71	0.1	0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	[NT]	71	0.1	0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	[NT]	71	0.2	0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	[NT]	71	0.1	0.1	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	[NT]	71	96	94	2	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	191478-2
Date extracted	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			17/05/2018	1	16/05/2018	16/05/2018		16/05/2018	16/05/2018
HCB	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	94	107
gamma-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	83	97
Heptachlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	85	96
delta-BHC	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	92	106
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	87	101
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	95	112
Dieldrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	100	117
Endrin	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	88	102
pp-DDD	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	89	104
Endosulfan II	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	86	95
Methoxychlor	mg/kg	0.1	Org-005	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	103	1	116	109	6	114	125

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-24
Date extracted	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	17/05/2018	17/05/2018		17/05/2018	17/05/2018
HCB	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	101	97
gamma-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	90	96
Heptachlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	93	99
delta-BHC	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	95	98
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	91	96
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	101	103
Dieldrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	105	112
Endrin	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	95	102
pp-DDD	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	101	99
Endosulfan II	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	95	106
Methoxychlor	mg/kg	0.1	Org-005	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	11	111	118	6	120	125

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	191478-42
Date extracted	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	17/05/2018	17/05/2018		16/05/2018	17/05/2018
HCB	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	95	128
gamma-BHC	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	87	114
Heptachlor	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	88	118
delta-BHC	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	94	122
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	90	117
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	98	116
Dieldrin	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	102	121
Endrin	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	89	125
pp-DDD	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	96	116
Endosulfan II	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	71	115
Methoxychlor	mg/kg	0.1	Org-005	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	22	106	105	1	120	130

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	16/05/2018	16/05/2018		[NT]	[NT]
HCB	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	31	108	106	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]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	17/05/2018	17/05/2018		[NT]	[NT]
HCB	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	51	3.2	3.2	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	51	110	104	6	[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]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	16/05/2018	16/05/2018		[NT]	[NT]
HCB	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	59	103	103	0	[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]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	16/05/2018	16/05/2018		[NT]	[NT]
HCB	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-005	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-005	[NT]	71	100	99	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	191478-2
Date extracted	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			17/05/2018	1	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	102	100
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	103	1	116	109	6	102	115

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-24
Date extracted	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	17/05/2018	17/05/2018		17/05/2018	16/05/2018
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	101	139
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	11	111	118	6	97	122

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	191478-42
Date extracted	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	17/05/2018	17/05/2018		16/05/2018	16/05/2018
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	102	110
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	22	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	22	106	105	1	100	109

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	16/05/2018	16/05/2018		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	31	108	106	2	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	17/05/2018	17/05/2018		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	51	110	104	6	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	16/05/2018	16/05/2018		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	59	103	103	0	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	16/05/2018	16/05/2018		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCLMX	%		Org-006	[NT]	71	100	99	1	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	191478-2
Date prepared	-			15/05/2018	1	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			16/05/2018	1	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	108	70
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	103	78
Chromium	mg/kg	1	Metals-020	<1	1	2	2	0	104	74
Copper	mg/kg	1	Metals-020	<1	1	190	200	5	104	90
Lead	mg/kg	1	Metals-020	<1	1	6	6	0	101	72
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	107	111
Nickel	mg/kg	1	Metals-020	<1	1	6	6	0	98	76
Zinc	mg/kg	1	Metals-020	<1	1	35	35	0	103	71

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	191478-24
Date prepared	-			[NT]	11	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	11	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Arsenic	mg/kg	4	Metals-020	[NT]	11	5	5	0	108	98
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	103	102
Chromium	mg/kg	1	Metals-020	[NT]	11	16	17	6	105	100
Copper	mg/kg	1	Metals-020	[NT]	11	13	15	14	106	104
Lead	mg/kg	1	Metals-020	[NT]	11	26	25	4	102	109
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	110	107
Nickel	mg/kg	1	Metals-020	[NT]	11	5	5	0	98	98
Zinc	mg/kg	1	Metals-020	[NT]	11	120	140	15	101	97

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	191478-42
Date prepared	-			[NT]	22	15/05/2018	15/05/2018		15/05/2018	15/05/2018
Date analysed	-			[NT]	22	16/05/2018	16/05/2018		16/05/2018	16/05/2018
Arsenic	mg/kg	4	Metals-020	[NT]	22	<4	<4	0	99	85
Cadmium	mg/kg	0.4	Metals-020	[NT]	22	<0.4	<0.4	0	96	88
Chromium	mg/kg	1	Metals-020	[NT]	22	17	20	16	96	108
Copper	mg/kg	1	Metals-020	[NT]	22	6	8	29	96	96
Lead	mg/kg	1	Metals-020	[NT]	22	12	12	0	93	80
Mercury	mg/kg	0.1	Metals-021	[NT]	22	<0.1	<0.1	0	104	104
Nickel	mg/kg	1	Metals-020	[NT]	22	3	4	29	91	86
Zinc	mg/kg	1	Metals-020	[NT]	22	8	10	22	94	75

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	31	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	31	16/05/2018	16/05/2018		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	31	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	31	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	31	27	28	4	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	31	35	43	21	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	31	3	3	0	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	31	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	31	51	53	4	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	31	27	31	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]	41	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	41	16/05/2018	16/05/2018		[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	41	44	67	41	[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	51	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	51	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	51	50	48	4	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	51	10	9	11	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	51	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	51	19	17	11	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	51	31	28	10	[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]	51	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	51	16/05/2018	16/05/2018		[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	51	32	28	13	[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	59	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	59	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	59	16	17	6	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	59	30	29	3	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	59	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	59	52	50	4	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	59	31	32	3	[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]	59	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	59	16/05/2018	16/05/2018		[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	59	17	16	6	[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	71	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	71	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	71	18	14	25	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	71	11	12	9	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	71	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	71	3	3	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	71	22	23	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]	71	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	71	16/05/2018	16/05/2018		[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	71	22	21	5	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	191478-2
Date prepared	-			16/05/2018	1	15/05/2018	15/05/2018		16/05/2018	16/05/2018
Date analysed	-			16/05/2018	1	16/05/218	16/05/218		16/05/2018	16/05/2018
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	102	100

QUALITY CONTROL: Misc Soil - Inorg					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	191478-38
Date prepared	-			[NT]	51	15/05/2018	15/05/2018		16/05/2018	16/05/2018
Date analysed	-			[NT]	51	16/05/218	16/05/218		16/05/2018	16/05/2018
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	51	<5	<5	0	101	106

QUALITY CONTROL: Misc Soil - Inorg					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	17	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	17	16/05/218	16/05/218		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	17	<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]	37	15/05/2018	15/05/2018		[NT]	[NT]
Date analysed	-			[NT]	37	16/05/218	16/05/218		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	37	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	16/05/2018	[NT]
Date analysed	-			16/05/2018	[NT]	[NT]	[NT]	[NT]	16/05/2018	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: CEC				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			17/05/2018	59	17/05/2018	17/05/2018		17/05/2018	[NT]
Date analysed	-			17/05/2018	59	17/05/2018	17/05/2018		17/05/2018	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-009	<0.1	59	17	19	11	111	[NT]
Exchangeable K	meq/100g	0.1	Metals-009	<0.1	59	1.2	1.3	8	81	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-009	<0.1	59	4.5	4.9	9	109	[NT]
Exchangeable Na	meq/100g	0.1	Metals-009	<0.1	59	0.50	0.58	15	87	[NT]

QUALITY CONTROL: Micro testing in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date testing started	-			12/05/2018	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Date testing completed	-			12/05/2018	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Faecal Coliforms in soil	MPN/100g	200	Ext-008	<200	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Coliforms in soil	MPN/100g	200	Ext-008	<200	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: BTEX in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			14/05/2018	[NT]	[NT]	[NT]	[NT]	14/05/2018	[NT]
Date analysed	-			14/05/2018	[NT]	[NT]	[NT]	[NT]	14/05/2018	[NT]
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	110	[NT]
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Surrogate Dibromofluoromethane	%		Org-016	105	[NT]	[NT]	[NT]	[NT]	106	[NT]
Surrogate toluene-d8	%		Org-016	93	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate 4-BFB	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	115	[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.	

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

Asbestos: Excessive sample volumes were provided for asbestos analysis.

A portion of the supplied samples were sub-sampled according to Envirolab procedures.

We cannot guarantee that these sub-samples are indicative of the entire sample.

Envirolab recommends supplying 40-50g (50mL) of sample in its own container as per AS4964-2004.

Note: Samples requested for asbestos testing were sub-sampled from bags provided by the client. Samples 15 & 31 were sub-sampled from jars provided by the client.

PAHs in Soil - The Laboratory %RPD acceptance criteria has been exceeded for laboratory sample number 191478-11. Therefore a triplicate result has been issued as 191478-79.

Faecal Coliform & Total Coliform analysed by Sonic Food & Water Testing. Report No. W1808880

SAMPLE RECEIPT ADVICE

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor

Sample Login Details

Your reference	E31452K, Bowral
Envirolab Reference	191478
Date Sample Received	11/05/2018
Date Instructions Received	11/05/2018
Date Results Expected to be Reported	18/05/2018

Sample Condition

Samples received in appropriate condition for analysis	YES
No. of Samples Provided	74 Soil, 3 Material, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14.7
Cooling Method	Ice Pack
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:



Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metals in soil	Total Phenolics (as Phenol)	pH1:5 soil:water	Asbestos ID - soils	Asbestos ID - materials	CEC	Clay 50-120g	Micro testing in soil	BTEX in Water	On Hold
BH01-0.05-0.3	✓	✓	✓	✓	✓	✓	✓		✓						
BH01-0.35-0.55	✓	✓	✓	✓	✓	✓	✓								
BH02-0.05-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH02-0.4-0.6	✓	✓	✓			✓									
BH03-0.14-0.3	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
BH03-0.7-0.9															✓
BH03-1.7-1.95	✓	✓	✓	✓	✓	✓	✓								
BH03-3.0-3.2															✓
BH04-0.17-0.3	✓	✓	✓	✓	✓	✓	✓		✓				✓		
BH04-0.4-0.6	✓	✓	✓			✓									
BH05-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH05-0.5-0.7	✓	✓	✓			✓									
BH06-0.15-0.25	✓	✓	✓	✓	✓	✓	✓		✓						
BH06-0.4-0.6	✓	✓	✓	✓	✓	✓	✓								
BH07-0.1-0.2	✓	✓	✓	✓	✓	✓	✓		✓				✓		
BH07-0.2-0.4															✓
BH07-0.5-0.7	✓	✓	✓	✓	✓	✓	✓								
BH08-0.13-0.25													✓		
BH08-0.25-0.35	✓	✓	✓	✓	✓	✓	✓		✓						
BH08-0.5-0.6	✓	✓	✓			✓									
BH09-0.14-0.2													✓		
BH09-0.2-0.4	✓	✓	✓	✓	✓	✓	✓		✓						
BH09-0.6-0.8	✓	✓	✓			✓									
BH10-0.0-0.15	✓	✓	✓	✓	✓	✓	✓		✓						
BH10-0.15-0.2	✓	✓	✓			✓									
BH11-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH11-0.5-0.7	✓	✓	✓			✓									
BH11-1.3-1.5															✓
BH12-0.0-0.15	✓	✓	✓	✓	✓	✓	✓		✓						
BH13-0.0-0.2	✓	✓	✓	✓	✓	✓	✓								
BH14-0.05-0.15	✓	✓	✓	✓	✓	✓	✓		✓						
BH14-0.15-0.25															✓

Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metals in soil	Total Phenolics (as Phenol)	pH1:5 soil:water	Asbestos ID - soils	Asbestos ID - materials	CEC	Clay 50-120g	Micro testing in soil	BTEX in Water	On Hold
BH14-0.4-0.6	✓	✓	✓	✓	✓	✓	✓								
BH14-1.2-1.4															✓
BH15-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH15-1.0-1.2	✓	✓	✓			✓									
BH16-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH17-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH17-0.85-1.0	✓	✓	✓	✓	✓	✓	✓								
BH18-0.0-0.3	✓	✓	✓	✓	✓	✓	✓		✓						
BH18-0.5-0.7	✓	✓	✓			✓									
BH19-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH19-0.4-0.6	✓	✓	✓			✓									
BH20-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH20-0.4-0.6	✓	✓	✓	✓	✓	✓	✓								
BH21-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH21-0.7-0.95															✓
BH21-1.7-1.95	✓	✓	✓	✓	✓	✓	✓								
BH22-0.0-0.15	✓	✓	✓	✓	✓	✓	✓		✓						
BH23-0.0-0.1	✓	✓	✓	✓	✓	✓	✓		✓						
BH24-0.0-0.1	✓	✓	✓	✓	✓	✓	✓		✓						
BH25-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH25-0.5-0.7	✓	✓	✓			✓									
BH26-0.05-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH26-0.6-0.8															✓
BH26-1.5-1.7	✓	✓	✓	✓	✓	✓	✓								
BH27-0.05-0.3	✓	✓	✓	✓	✓	✓	✓		✓						
BH27-0.5-0.7	✓	✓	✓			✓									
BH28-0.1-0.25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
BH28-0.7-0.95															✓
BH28-1.7-1.95	✓	✓	✓			✓									
BH29-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH29-0.8-0.95															✓
BH29-1.7-1.95	✓	✓	✓			✓									

Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBs in Soil	Acid Extractable metals in soil	Total Phenolics (as Phenol)	pH1:5 soil:water	Asbestos ID - soils	Asbestos ID - materials	CEC	Clay 50-120g	Micro testing in soil	BTEX in Water	On Hold
BH30-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH30-0.3-0.5	✓	✓	✓			✓									
BH31-0.0-0.2	✓	✓	✓	✓	✓	✓	✓		✓						
BH31-0.4-0.6															✓
BH31-1.1-1.3															✓
DUPKT1	✓	✓	✓	✓	✓	✓	✓								
DUPKT2	✓	✓	✓	✓	✓	✓	✓								
DUPHW1															✓
SF1										✓					
SF2										✓					
BH31-SF										✓					
TB	✓														
FR														✓	
--0.4-0.6															✓

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.

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen		EIS Job E31462K Number: Date Results STANDARD Required: Page: 1 of 4		FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 6001 Attention: ktaylor@ikgroup.net.au	
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EIS

Location:		Bowral					Sample Preserved in Esky on Ice									
Sampler:		K.Taylor					Tests Required									
Date Sampled	Lab Ref.	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 7a	Combo 7	Combo 2	Combo 3	Asbestos	pH, CEC and clay content	Faecal coliforms & total coliforms	BTEX		
10/05/2018	1	BH01	0.05-0.3	G, A	0	Fill	X									
	2		0.35-0.55	G	0	Natural		X								
10/05/2018	3	BH02	0.05-0.2	G, A	0	Fill	X									
	4		0.4-0.6	G	0	Natural			X							
9/05/2018	5	BH03	0.14-0.3	G, A	0	Fill	X					X				
	6		0.7-0.9	G, A	0	Fill										
	7		1.7-1.95	G	0	Natural		X								
	8		3.0-3.2	G	0	Natural										
11/05/2018	9	BH04	0.17-0.3	G, A, S	0	Fill	X						X			
	10		0.4-0.6	G	0	Natural				X						
10/05/2018	11	BH05	0.0-0.2	G, A	0	Fill	X									
	12		0.5-0.7	G	0	Natural			X							
10/05/2018	13	BH06	0.15-0.25	G, A	0	Fill	X									
	14		0.4-0.6	G	0	Natural		X								
11/05/2018	15	BH07	0.1-0.2	S	0	Fill	X						X			
	16		0.2-0.4	G, A	0	Fill										
	17		0.5-0.7	G	0	Natural		X								
11/05/2018	18	BH08	0.13-0.25	S	0	Fill							X			
	19		0.25-0.35	G, A	0	Fill	X									
	20		0.5-0.6	G	0	Natural				X						
11/05/2018	21	BH09	0.14-0.2	S	0	Fill							X			
	22		0.2-0.4	G, A	0	Fill	X									
	23		0.6-0.8	G	0	Natural				X						
8/05/2018	24	BH10	0.0-0.15	G, A	0	Fill	X									
	25		0.15-0.2	G	0	Natural			X							

Remarks (comments/detection limits required):

Please send DUPKT3 and DUPKT4 to Envirolab VIC

Sample Containers:

G - 250mg Glass Jar

A - Ziplock Asbestos Bag

P - Plastic Bag

Relinquished By:

Date:

Time:

Received By:

Date:

M7 ELS

11/5/18

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Envirolab

Job No:

Date Received:

Time Received:

Received By:

Temp: Cool/Ambient

Cooling: Ice/No pack

Security: intact/Broken/None

14.7

SAMPLE AND CHAIN OF CUSTODY FORM

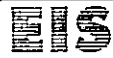
TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen 191478	EIS Job E31452K Number: Date Results STANDARD Required: Page: 2 of 4	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@ikgroup.net.au
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Location:		Bowral					Sample Preserved in Esky on Ice												
Sampler:		K.Taylor					Tests Required												
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 7a	Combo 7	Combo 2	Combo 3	Asbestos	pH, CEC and clay content	Faecal coliforms & total coliforms	BTEX					
10/05/2018	26	BH11	0.0-0.2	G, A	0	Fill	X												
	27		0.5-0.7	G, A	0	Fill			X										
	28		1.3-1.5	G	0	Natural													
8/05/2018	29	BH12	0.0-0.15	G, A	0	Fill	X												
8/05/2018	30	BH13	0.0-0.2	G, A	0	Fill		X											
10/05/2018	31	BH14	0.05-0.15	G, A	0	Fill	X												
	32		0.15-0.25	G, A	0	Fill													
	33		0.4-0.6	G, A	0	Fill		X											
	34		1.2-1.4	G	0	Natural													
10/05/2018	35	BH15	0.0-0.2	G, A	0	Fill	X												
	36		1.0-1.2	G	0	Natural			X										
8/05/2018	37	BH16	0.0-0.2	G, A	0	Fill	X												
8/05/2018	38	BH17	0.0-0.2	G, A	0	Fill	X												
	39		0.85-1.0	G	0	Natural		X											
10/05/2018	40	BH18	0.0-0.3	G, A	0	Fill	X												
	41		0.5-0.7	G	0	Natural			X										
10/05/2018	42	BH19	0.0-0.2	G, A	0	Fill	X												
	43		0.4-0.6	G	0	Natural				X									
10/05/2018	44	BH20	0.0-0.2	G, A	0	Fill	X												
	45		0.4-0.6	G	0	Natural		X											
9/05/2018	46	BH21	0.0-0.2	G, A	0	Fill	X												
	47		0.7-0.95	G, A	0	Fill													
	48		1.7-1.95	G	0	Natural		X											
8/05/2018	49	BH22	0.0-0.15	G, A	0	Fill	X												
8/05/2018	50	BH23	0.0-0.1	G, A	0	Fill	X												
Remarks (comments/detection limits required): Please send DUPKT3 and DUPKT4 to Envirolab VIC							Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag												
Relinquished By:					Date:		Time:			Received By:				Date:					
										117				11/5/18					

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Allen <i>19/14/18</i>	EIS Job E31462K Number: Date Results STANDARD Required: Page: 3 of 4	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@ikgroup.net.au
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Location: Bowral		Sample Preserved in Esky on Ice																	
Sampler: K.Taylor		Tests Required																	
Date Sampled	Lab Ref.	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 7a	Combo 7	Combo 2	Combo 3	Asbestos	pH, CEC and clay content	faecal coliforms & total coliforms	BTEX					
8/05/2018	51	BH24	0.0-0.1	G, A	0	Fill	X												
10/05/2018	52	BH25	0.0-0.2	G, A	0	Fill	X												
	53		0.5-0.7	G	0	Natural			X										
10/05/2018	54	BH26	0.05-0.2	G, A	0	Fill	X												
	55		0.6-0.8	G, A	0	Fill													
	56		1.5-1.7	G	0	Natural		X											
10/05/2018	57	BH27	0.05-0.3	G, A	0	Fill	X												
	58		0.5-0.7	G	0	Natural			X										
9/05/2018	59	BH28	0.1-0.25	G, A	0	Fill	X					X							
	60		0.7-0.95	G, A	0	Fill													
	61		1.7-1.95	G	0	Natural			X										
9/05/2018	62	BH29	0.0-0.2	G, A	0	Fill	X												
	63		0.8-0.95	G, A	0	Fill													
	64		1.7-1.95	G	0	Natural			X										
10/05/2018	65	BH30	0.0-0.2	G, A	0	Fill	X												
	66		0.3-0.5	G	0	Natural				X									
10/05/2018	67	BH31	0.0-0.2	G, A	0	Fill	X												
	68		0.4-0.6	G, A	0	Fill													
	69		1.1-1.3	G	0	Natural													
9/05/2018	70	DUPKT1	-	G	-	Fill		X											
9/05/2018	71	DUPKT2	-	G	-	Fill		X											
9/05/2018	—	DUPKT3	-	G	-	Fill		X											
9/05/2018	—	DUPKT4	-	G	-	Fill		X											
8/05/2018	72	DUPHW1	-	G	-	Fill													
Remarks (comments/detection limits required): Please send DUPKT3 and DUPKT4 to Envirolab VIC							Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag												
							Relinquished By:				Date:				Time:				Received By: <i>117</i>

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: <u>Alleen</u>				EIS Job E31452K Number: Date Results STANDARD Required: Page: 4 of 4				FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@jkgroup.net.au											
Location:		Bowral				Sample Preserved in Esky on Ice													
Sampler:		K.Taylor				Tests Required													
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 7a	Combo 7	Combo 2	Combo 3	Asbestos	pH, CEC and clay content	Faecal coliforms & total coliforms	BTEX					
10/05/2018	73	SF1	Surface	P	-	Material					X								
10/05/2018	74	SF2	Surface	P	-	Material					X								
10/05/2018	75	BH31-SF	Surface	P	-	Material					X								
11/05/2018	76	TB	-	G	-	Sand									X				
11/05/2018	77	FR	-	V	-	Water									X				
Extra		78 - (no number) O.4-06				SOT1													
Remarks (comments/detection limits required): Please send DUPKT3 and DUPKT4 to Envirolab VIC							Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag												
Relinquished By:				Date:			Time:			Received By:			Date:						
										M7			11/5/18						

CERTIFICATE OF ANALYSIS 191478-A

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor
Address	PO Box 976, North Ryde BC, NSW, 1670

Sample Details

Your Reference	<u>E31452K, Bowral</u>
Number of Samples	Additional Testing on 9 Soils
Date samples received	11/05/2018
Date completed instructions received	21/05/2018

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	28/05/2018
Date of Issue	24/05/2018
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Jessica Hie
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Long Pham, Team Leader, Metals
Steven Luong, Senior Chemist

Authorised By



Jacinta Hurst, Laboratory Manager

Metals in TCLP USEPA1311

Our Reference		191478-A-26	191478-A-29	191478-A-31	191478-A-38	191478-A-49
Your Reference	UNITS	BH11	BH12	BH14	BH17	BH22
Depth		0.0-0.2	0.0-0.15	0.05-0.15	0.0-0.2	0.0-0.15
Date Sampled		10/05/2018	08/05/2018	10/05/2018	08/05/2018	08/05/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	22/05/2018	22/05/2018	22/05/2018	22/05/2018	22/05/2018
Date analysed	-	22/05/2018	22/05/2018	22/05/2018	22/05/2018	22/05/2018
pH of soil for fluid# determ.	pH units	7.2	8.8	7.8	6.7	6.8
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.1	5.3	5.1	5.0	5.0
Chromium in TCLP	mg/L	[NA]	<0.01	[NA]	[NA]	<0.01
Lead in TCLP	mg/L	0.2	[NA]	[NA]	0.1	[NA]
Nickel in TCLP	mg/L	[NA]	[NA]	<0.02	[NA]	<0.02

Metals in TCLP USEPA1311

Our Reference		191478-A-51	191478-A-54	191478-A-57	191478-A-59
Your Reference	UNITS	BH24	BH26	BH27	BH28
Depth		0.0-0.1	0.05-0.2	0.05-0.3	0.1-0.25
Date Sampled		08/05/2018	10/05/2018	10/05/2018	09/05/2018
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	22/05/2018	22/05/2018	22/05/2018	22/05/2018
Date analysed	-	[NA]	22/05/2018	22/05/2018	22/05/2018
pH of soil for fluid# determ.	pH units	6.6	9.0	8.2	8.0
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1
pH of final Leachate	pH units	5.0	5.2	5.2	5.1
Nickel in TCLP	mg/L	[NA]	0.03	0.07	0.02

PAHs in TCLP (USEPA 1311)		
Our Reference		191478-A-51
Your Reference	UNITS	BH24
Depth		0.0-0.1
Date Sampled		08/05/2018
Type of sample		Soil
Date extracted	-	23/05/2018
Date analysed	-	23/05/2018
Naphthalene in TCLP	mg/L	<0.001
Acenaphthylene in TCLP	mg/L	<0.001
Acenaphthene in TCLP	mg/L	<0.001
Fluorene in TCLP	mg/L	<0.001
Phenanthrene in TCLP	mg/L	<0.001
Anthracene in TCLP	mg/L	<0.001
Fluoranthene in TCLP	mg/L	<0.001
Pyrene in TCLP	mg/L	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001
Chrysene in TCLP	mg/L	<0.001
Benzo(b,k)fluoranthene in TCLP	mg/L	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001
Total +ve PAH's	mg/L	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	94

Method ID	Methodology Summary
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
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 in house method INORG-004.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Leachates are extracted with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

QUALITY CONTROL: Metals in TCLP USEPA1311					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	191478-A-29
Date extracted	-			22/05/2018	26	22/05/2018	22/05/2018		22/05/2018	22/05/2018
Date analysed	-			22/05/2018	26	22/05/2018	22/05/2018		22/05/2018	22/05/2018
Chromium in TCLP	mg/L	0.01	Metals-020 ICP-AES	<0.01	[NT]	[NT]	[NT]	[NT]	107	101
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	26	0.2	0.2	0	102	[NT]
Nickel in TCLP	mg/L	0.02	Metals-020 ICP-AES	<0.02	[NT]	[NT]	[NT]	[NT]	102	[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	-			23/05/2018	[NT]	[NT]	[NT]	[NT]	23/05/2018	[NT]
Date analysed	-			23/05/2018	[NT]	[NT]	[NT]	[NT]	23/05/2018	[NT]
Naphthalene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	83	[NT]
Acenaphthylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	101	[NT]
Phenanthrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	99	[NT]
Anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	99	[NT]
Pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	99	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	91	[NT]
Benzo(b)fluoranthene in TCLP	mg/L	0.002	Org-012	<0.002	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	96	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-012	<0.001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	99	[NT]	[NT]	[NT]	[NT]	133	[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.	

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.

Measurement Uncertainty estimates are available for most tests upon request.

SAMPLE RECEIPT ADVICE

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor

Sample Login Details

Your reference	E31452K, Bowral
Envirolab Reference	191478-A
Date Sample Received	11/05/2018
Date Instructions Received	21/05/2018
Date Results Expected to be Reported	28/05/2018

Sample Condition

Samples received in appropriate condition for analysis	YES
No. of Samples Provided	Additional Testing on 9 Soils
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14.7
Cooling Method	Ice Pack
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	Metals in TCLP USEPA1311	PAHs in TCLP(USEPA 1311)	On Hold
BH01-0.05-0.3			✓
BH01-0.35-0.55			✓
BH02-0.05-0.2			✓
BH02-0.4-0.6			✓
BH03-0.14-0.3			✓
BH03-0.7-0.9			✓
BH03-1.7-1.95			✓
BH03-3.0-3.2			✓
BH04-0.17-0.3			✓
BH04-0.4-0.6			✓
BH05-0.0-0.2			✓
BH05-0.5-0.7			✓
BH06-0.15-0.25			✓
BH06-0.4-0.6			✓
BH07-0.1-0.2			✓
BH07-0.2-0.4			✓
BH07-0.5-0.7			✓
BH08-0.13-0.25			✓
BH08-0.25-0.35			✓
BH08-0.5-0.6			✓
BH09-0.14-0.2			✓
BH09-0.2-0.4			✓
BH09-0.6-0.8			✓
BH10-0.0-0.15			✓
BH10-0.15-0.2			✓
BH11-0.0-0.2	✓		
BH11-0.5-0.7			✓
BH11-1.3-1.5			✓
BH12-0.0-0.15	✓		
BH13-0.0-0.2			✓
BH14-0.05-0.15	✓		
BH14-0.15-0.25			✓



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Sample ID	Metals in TCLP USEPA1311	PAHs in TCLP(USEPA 1311)	On Hold
BH14-0.4-0.6			✓
BH14-1.2-1.4			✓
BH15-0.0-0.2			✓
BH15-1.0-1.2			✓
BH16-0.0-0.2			✓
BH17-0.0-0.2	✓		
BH17-0.85-1.0			✓
BH18-0.0-0.3			✓
BH18-0.5-0.7			✓
BH19-0.0-0.2			✓
BH19-0.4-0.6			✓
BH20-0.0-0.2			✓
BH20-0.4-0.6			✓
BH21-0.0-0.2			✓
BH21-0.7-0.95			✓
BH21-1.7-1.95			✓
BH22-0.0-0.15	✓		
BH23-0.0-0.1			✓
BH24-0.0-0.1	✓	✓	
BH25-0.0-0.2			✓
BH25-0.5-0.7			✓
BH26-0.05-0.2	✓		
BH26-0.6-0.8			✓
BH26-1.5-1.7			✓
BH27-0.05-0.3	✓		
BH27-0.5-0.7			✓
BH28-0.1-0.25	✓		
BH28-0.7-0.95			✓
BH28-1.7-1.95			✓
BH29-0.0-0.2			✓
BH29-0.8-0.95			✓
BH29-1.7-1.95			✓

Sample ID	Metals in TCLP USEPA1311	PAHs in TCLP(USEPA 1311)	On Hold
BH30-0.0-0.2			✓
BH30-0.3-0.5			✓
BH31-0.0-0.2			✓
BH31-0.4-0.6			✓
BH31-1.1-1.3			✓
DUPKT1			✓
DUPKT2			✓
DUPHW1			✓
SF1			✓
SF2			✓
BH31-SF			✓
TB			✓
FR			✓
--0.4-0.6			✓
BH05 - [TRIPLICATE]-0.0-0.2			✓

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.

Aileen Hie

From: Katrina Taylor <KTaylor@jkgroup.net.au>
Sent: Monday, 21 May 2018 12:09 PM
To: Aileen Hie; Simon Song
Subject: FW: Results for Registration 191478 E31452K, Bowral
Attachments: 191478-[P00].pdf; 19147B-COC.pdf; 19147B.Prelim.Excel.xlsx

Afternoon,

Could you please schedule the following samples for TCLP analysis:

	Chromium	Lead	Nickel	PAHs
26 BH11 (0.0-0.2)		X		
29 BH12 (0.0-0.15)	X			
31 BH14 (0.05-0.15)			X	
38 BH17 (0.0-0.2)		X		
49 BH22 (0.0-0.15)	X		X	
51 BH24 (0.0-0.1)				X
54 BH26 (0.05-0.2)			X	
57 BH27 (0.05-0.3)			X	
59 BH28 (0.1-0.25)			X	

Standard turnaround fine, thank you.

Regards,

Katrina Taylor
Senior Environmental Scientist

T: +612 9888 5000
F: +612 9888 5001
KTaylor@jkgroup.net.au
www.jkgroup.net.au



ENVIRONMENTAL INVESTIGATION SERVICES
CONSULTING ENVIRONMENTAL ENGINEERS AND SCIENTISTS
PO Box 976, North Ryde BC NSW 1670
11S Wicks Rd, Macquarie Park NSW 2113

This email and any attachments are confidential and may be privileged in which case neither is intended to be waived. If you have received this message in error, please notify us and remove it from your system. It is your responsibility to check any attachments for viruses and defects before opening or sending them on. At the Company's discretion we may send a paper copy for confirmation. In the event of any discrepancy between paper and electronic versions the paper version is to take precedence.

From: Ken Nguyen [mailto:KNguyen@envirolab.com.au]
Sent: Friday, 18 May 2018 7:00 PM
To: Katrina Taylor <KTaylor@jkgroup.net.au>
Subject: Results for Registration 191478 E31452K, Bowral

Please refer to attached for:

CERTIFICATE OF ANALYSIS 13772

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor
Address	PO Box 976, North Ryde BC, NSW, 1670

Sample Details

Your Reference	<u>E31452K</u>
Number of Samples	2 Soil
Date samples received	15/05/2018
Date completed instructions received	15/05/2018

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	22/05/2018
Date of Issue	22/05/2018
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Chris De Luca, Senior Chemist
 Pamela Adams, Laboratory Manager, Melbourne

Authorised By

P. Adams.

Pamela Adams, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	15/05/2018	15/05/2018
Date analysed	-	17/05/2018	17/05/2018
vTRH C ₆ - C ₉	mg/kg	<25	<25
vTRH C ₆ - C ₁₀	mg/kg	<25	<25
TRH 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	%	94	88

TRH Soil C10-C40 NEPM			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	15/05/2018	15/05/2018
Date analysed	-	22/05/2018	22/05/2018
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	%	77	81

PAHs in Soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	18/05/2018	18/05/2018
Date analysed	-	22/05/2018	22/05/2018
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	0.2
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	1.1
Anthracene	mg/kg	<0.1	0.2
Fluoranthene	mg/kg	0.1	1.5
Pyrene	mg/kg	0.1	1.3
Benzo(a)anthracene	mg/kg	0.1	0.7
Chrysene	mg/kg	<0.1	0.6
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	1.1
Benzo(a)pyrene	mg/kg	0.17	0.68
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.3
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1	0.4
Total +ve PAH's	mg/kg	0.59	8.1
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	0.9
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	0.9
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	0.9
Surrogate <i>p</i> -Terphenyl-d ₁₄	%	92	100

Total Phenolics in Soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	18/05/2018	18/05/2018
Date analysed	-	22/05/2018	22/05/2018
Total Phenolics (as Phenol)	mg/kg	<5	<5

OCP in Soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	18/05/2018	18/05/2018
Date analysed	-	22/05/2018	22/05/2018
alpha-BHC	mg/kg	<0.1	<0.1
Hexachlorobenzene	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	<0.1	<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	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate p-Terphenyl-d ₁₄	%	92	100

PCBs in Soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date extracted	-	18/05/2018	18/05/2018
Date analysed	-	22/05/2018	22/05/2018
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 <i>p</i> -Terphenyl-d ₁₄	%	92	100

Acid Extractable metals in soil			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date digested	-	21/05/2018	21/05/2018
Date analysed	-	21/05/2018	21/05/2018
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	15	21
Copper	mg/kg	33	31
Lead	mg/kg	15	32
Mercury	mg/kg	<0.1	0.1
Nickel	mg/kg	55	5
Zinc	mg/kg	30	93

Moisture			
Our Reference		13772-1	13772-2
Your Reference	UNITS	DUPKT3	DUPKT4
Date Sampled		09/05/2018	09/05/2018
Type of sample		Soil	Soil
Date prepared	-	18/05/2018	18/05/2018
Date analysed	-	21/05/2018	21/05/2018
Moisture	%	6.2	16

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.
Inorg-030	Total Phenolics - determined colorimetrically following distillation.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Org-003	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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Note, For OCs 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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-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.

Method ID	Methodology Summary
Org-012	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. 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-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	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)-BTX 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	-			15/05/2018	[NT]	[NT]	[NT]	[NT]	15/05/2018	[NT]
Date analysed	-			17/05/2018	[NT]	[NT]	[NT]	[NT]	17/05/2018	[NT]
vTRH C ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	80	[NT]
vTRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	80	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	[NT]	[NT]	77	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	[NT]	[NT]	84	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	80	[NT]
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	91	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: TRH Soil C10-C40 NEPM					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			18/05/2018	[NT]	[NT]	[NT]	[NT]	18/05/2018	[NT]
Date analysed	-			21/05/2018	[NT]	[NT]	[NT]	[NT]	21/05/2018	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	80	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	76	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	80	[NT]
Surrogate o-Terphenyl	%		Org-003	81	[NT]	[NT]	[NT]	[NT]	78	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			18/05/2018	[NT]	[NT]	[NT]	[NT]	18/05/2018	[NT]
Date analysed	-			22/05/2018	[NT]	[NT]	[NT]	[NT]	22/05/2018	[NT]
Naphthalene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Phenanthrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	[NT]	[NT]	[NT]	[NT]	88	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d ₁₄	%		Org-012	92	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Total Phenolics in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			18/05/2018	[NT]	[NT]	[NT]	[NT]	18/05/2018	[NT]
Date analysed	-			22/05/2018	[NT]	[NT]	[NT]	[NT]	22/05/2018	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-030	<5	[NT]	[NT]	[NT]	[NT]	89	[NT]

QUALITY CONTROL: OCP in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			18/05/2018	[NT]	[NT]	[NT]	[NT]	18/05/2018	[NT]
Date analysed	-			22/05/2018	[NT]	[NT]	[NT]	[NT]	22/05/2018	[NT]
alpha-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
gamma-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
delta-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
gamma-Chlordane	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
alpha-chlordane	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Dieldrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Endrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Methoxychlor	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d ₁₄	%		Org-012	92	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			18/05/2018	[NT]	[NT]	[NT]	[NT]	18/05/2018	[NT]
Date analysed	-			22/05/2018	[NT]	[NT]	[NT]	[NT]	22/05/2018	[NT]
Aroclor 1016	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Aroclor 1260	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate <i>p</i> -Terphenyl-d ₁₄	%		Org-012	92	[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	[NT]
Date digested	-			21/05/2018	[NT]	[NT]	[NT]	[NT]	21/05/2018	[NT]
Date analysed	-			21/05/2018	[NT]	[NT]	[NT]	[NT]	21/05/2018	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[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.	

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-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.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

Total Phenolics analysed by Envirolab Sydney, report 210780.

SAMPLE RECEIPT ADVICE

Client Details

Client	Environmental Investigation Services
Attention	Katrina Taylor

Sample Login Details

Your reference	E31452K
Envirolab Reference	13772
Date Sample Received	15/05/2018
Date Instructions Received	15/05/2018
Date Results Expected to be Reported	22/05/2018

Sample Condition

Samples received in appropriate condition for analysis	YES
No. of Samples Provided	2 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Pamela Adams

Phone: 03 9763 2500

Fax: 03 9763 2633

Email: padams@envirolab.com.au

Analisa Mathrick

Phone: 03 9763 2500

Fax: 03 9763 2633

Email: amathrick@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
 ABN 37 112 535 645 - 002
 1 Dalmore Drive Scoresby VIC 3179
 ph 03 9763 2500 fax 03 9763 2633
 melbourne@envirolab.com.au
 www.envirolab.com.au

Sample ID	VTRH(C6-C10)/BTEXN in Soil	TRH Soil C10-C40 NEPM	PAHs in Soil	Total Phenolics in Soil	OCP in Soil	PCBs in Soil	Acid Extractable metals in soil
DUPKT3	✓	✓	✓	✓	✓	✓	✓
DUPKT4	✓	✓	✓	✓	✓	✓	✓

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.

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	EIS Job Number: E31452K Date Results Required: STANDARD Page: 1 of 4	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: ktaylor@ikgroup.net.au	EIS
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Location: Bowral	Sample Preserved in Esky on Ice
Sampler: K.Taylor	Tests Required

Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 7a	Combo 7	Combo 2	Combo 3	Asbestos	pH, CEC and clay content	Faecal coliforms & total coliforms	BTEX					
10/05/2018	1	BH01	0.05-0.3	G, A	0	Fill	X												
	2		0.35-0.55	G	0	Natural		X											
10/05/2018	3	BH02	0.05-0.2	G, A	0	Fill	X												
	4		0.4-0.6	G	0	Natural			X										
9/05/2018	5	BH03	0.14-0.3	G, A	0	Fill	X					X							
	6		0.7-0.9	G, A	0	Fill													
	7		1.7-1.95	G	0	Natural		X											
	8		3.0-3.2	G	0	Natural													
11/05/2018	9	BH04	0.17-0.3	G, A, S	0	Fill	X						X						
	10		0.4-0.6	G	0	Natural				X									
10/05/2018	11	BH05	0.0-0.2	G, A	0	Fill	X												
	12		0.5-0.7	G	0	Natural			X										
10/05/2018	13	BH06	0.15-0.25	G, A	0	Fill	X												
	14		0.4-0.6	G	0	Natural		X											
11/05/2018	15	BH07	0.1-0.2	S	0	Fill	X						X						
	16		0.2-0.4	G, A	0	Fill													
	17		0.5-0.7	G	0	Natural		X											
11/05/2018	18	BH08	0.13-0.25	S	0	Fill							X						
	19		0.25-0.35	G, A	0	Fill	X												
	20		0.5-0.6	G	0	Natural				X									
11/05/2018	21	BH09	0.14-0.2	S	0	Fill							X						
	22		0.2-0.4	G, A	0	Fill	X												
	23		0.6-0.8	G	0	Natural				X									
8/05/2018	24	BH10	0.0-0.15	G, A	0	Fill	X												
	25		0.15-0.2	G	0	Natural				X									

Remarks (comments/detection limits required): Please send DUPKT3 and DUPKT4 to Envirolab VIC		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: Kevin Wong [Signature]	Date: 14/5/18	Received By: M7 EIS [Signature]	Date: 14/5/18

Job No: 13772

Date Received: 15/5/18
 Time Received: 10:40
 Received by: [Signature]
 Temp: Cool/Ambient
 Cooling: Ice/icepack
 Security: Intact/Broken/None

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200

Job No: 191478
 Date Received: 11/5/18
 Time Received: 16:30
 Received By: M7
 Temp: Cool/Ambient
 Cooling: Ice/icepack
 Security: Intact/Broken/None