

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: E27556K Date Results Required: STANDARD Page: 1	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: <i>Micki Delaney</i>
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Location: Austral							Sample Preserved in Esky on Ice									
Sampler: JDC							Tests Required									
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos	
30/06/2015	1	TP28	0-0.2	G, A	0	Soil				X						
	2	↓	0.3-0.5	↓	↓	↓			X	X						
	3	TP29	0.1	A	-	Material									X	
	4	↓	0-0.2	G, A	0	Soil				X						
	5	↓	0.3-0.5	↓						X						
	6	TP30	0-0.2							X						
	7	↓	0.3-0.5						X	X						
	8	TP31	0-0.2							X						
	9	↓	0.4-0.5							X						
	10	TP32	0-0.1							X						
	11	↓	0.2-0.4							X						
	12	TP33	0-0.2							X						
	13	↓	0.5-0.7							X						
	14	↓	0.7-0.9						X	X						
	15	A	-							X						
	16	B	-							X						
	17	C	-							X						
	18	FJS1	-	A	-	Material									X	
	19	DUPJDC1	-	G	-	Soil			X							
		DUPJDC2	-	↓	-	↓			X							
30/6/15	20	TS1	-	G	-	Soil									X	
30/6/15	21	TBI	-	G	-	Soil									X	

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: <i>AW</i>	Date: 30/6/15	Time: 30/6/15	Received By: <i>Ray</i> Enviro Date: 30/6/15 15:15

130374
 Date Received: 30/6/2015
 Time Received: 15:15
 Received by: *Ray*
 Temp: *22*
 Cooling: Ice/Icepack
 Security: *10.2*

Please Send DUP5DC2 to Environmental
 Melbourne.

CERTIFICATE OF ANALYSIS

6565

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K - Austal

No. of samples:

1 Soil

Date samples received / completed instructions received

02/07/2015 / 02/07/2015

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: / Issue Date:

8/07/15 / 8/07/15

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Analisa Mathrick

Laboratory Supervisor

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	6565-1
Your Reference	-----	DUPJDC2
Date Sampled	-----	30/06/2015
Type of sample		Soil
Date extracted	-	02/07/2015
Date analysed	-	03/07/2015
vTRHC ₆ - C ₉	mg/kg	<25
vTRHC ₆ - C ₁₀	mg/kg	<25
TRHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	79

TRH Soil C10-C40 NEPM		
Our Reference:	UNITS	6565-1
Your Reference	-----	DUPJDC2
Date Sampled	-----	30/06/2015
Type of sample		Soil
Date extracted	-	02/07/2015
Date analysed	-	04/07/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH>C ₁₀ -C ₁₆	mg/kg	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	82

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	6565-1 DUPJDC2 30/06/2015 Soil
Date extracted	-	02/07/2015
Date analysed	-	04/07/2015
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d ₁₄	%	104

OCP in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	6565-1 DUPJDC2 30/06/2015 Soil
Date extracted	-	02/07/2015
Date analysed	-	04/07/2015
alpha-BHC	mg/kg	<0.1
Hexachlorobenzene	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	98

OP in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	6565-1 DUPJDC2 30/06/2015 Soil
Date extracted	-	02/07/2015
Date analysed	-	04/07/2015
Azinphos-methyl	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorovos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate TCMX	%	98

PCBs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	6565-1 DUPJDC2 30/06/2015 Soil
Date extracted	-	02/07/2015
Date analysed	-	04/07/2015
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCLMX	%	98

Acid Extractable metals in soil		
Our Reference:	UNITS	6565-1
Your Reference	-----	DUPJDC2
Date Sampled	-----	30/06/2015
Type of sample		Soil
Date digested	-	03/07/2015
Date analysed	-	03/07/2015
Arsenic	mg/kg	5
Cadmium	mg/kg	<0.4
Chromium	mg/kg	15
Copper	mg/kg	21
Lead	mg/kg	28
Mercury	mg/kg	<0.1
Nickel	mg/kg	15
Zinc	mg/kg	66

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	6565-1 DUPJDC2 30/06/2015 Soil
Date prepared	-	2/07/2015
Date analysed	-	3/07/2015
Moisture	%	24

Method ID	Methodology Summary
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.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
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 subset	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. 'TEQ 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. 'TEQ 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. 'TEQ 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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-006	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. 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-015	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.

Client Reference: E27556K - Austal

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	[NT]	[NT]	LCS-1	02/07/2015
Date analysed	-			03/07/2015	[NT]	[NT]	LCS-1	03/07/2015
vTRHC ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	84%
vTRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	79%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	117%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	106%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	112%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	111%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	115%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	103	[NT]	[NT]	LCS-1	109%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
TRH Soil C10-C40 NEPM						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	6565-1	02/07/2015 02/07/2015	LCS-1	02/07/2015
Date analysed	-			04/07/2015	6565-1	04/07/2015 04/07/2015	LCS-1	04/07/2015
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	6565-1	<50 <50	LCS-1	92%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	6565-1	<100 <100	LCS-1	101%
TRHC ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	6565-1	<100 <100	LCS-1	107%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	6565-1	<50 <50	LCS-1	93%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	6565-1	<100 <100	LCS-1	101%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	6565-1	<100 <100	LCS-1	107%
Surrogate o-Terphenyl	%		Org-003	88	6565-1	82 80 RPD: 2	LCS-1	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	6565-1	02/07/2015 02/07/2015	LCS-1	02/07/2015
Date analysed	-			04/07/2015	6565-1	04/07/2015 04/07/2015	LCS-1	04/07/2015
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	107%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]

Client Reference: E27556K - Austal

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	103%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	108%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	LCS-1	112%
Benzo(b,j&k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	6565-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	6565-1	<0.05 <0.05	LCS-1	103%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%		Org-012	106	6565-1	104 100 RPD: 4	LCS-1	92%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	6565-1	02/07/2015 02/07/2015	LCS-1	02/07/2015
Date analysed	-			04/07/2015	6565-1	04/07/2015 04/07/2015	LCS-1	04/07/2015
alpha-BHC	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	107%
Hexachlorobenzene	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	107%
gamma-BHC	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	98%
delta-BHC	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	107%
Heptachlor Epoxide	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	95%
gamma-Chlordane	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	96%
alpha-chlordane	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	104%
Dieldrin	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	96%
Endrin	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	83%
Endosulfan II	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
pp-DDD	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	104%
Endrin Aldehyde	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	69%
Methoxychlor	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]

Client Reference: E27556K - Austal

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in Soil						Base II Duplicate II %RPD		
Surrogate TCMX	%		Org-012	104	6565-1	98 96 RPD: 2	LCS-1	98%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	6565-1	02/07/2015 02/07/2015	LCS-1	02/07/2015
Date analysed	-			04/07/2015	6565-1	04/07/2015 04/07/2015	LCS-1	04/07/2015
Azinphos-methyl	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	LCS-1	94%
Chlorpyrifos-methyl	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	LCS-1	87%
Diazinon	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	LCS-1	64%
Fenitrothion	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	LCS-1	62%
Malathion	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Parathion	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-015	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-015	104	6565-1	98 96 RPD: 2	LCS-1	98%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/07/2015	6565-1	02/07/2015 02/07/2015	LCS-1	02/07/2015
Date analysed	-			04/07/2015	6565-1	04/07/2015 04/07/2015	LCS-1	04/07/2015
Aroclor 1016	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	LCS-1	101%
Aroclor 1260	mg/kg	0.1	Org-012	<0.1	6565-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-015	104	6565-1	98 96 RPD: 2	LCS-1	98%

Client Reference: E27556K - Austal

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			03/07/2015	[NT]	[NT]	LCS-1	03/07/2015
Date analysed	-			03/07/2015	[NT]	[NT]	LCS-1	03/07/2015
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-1	100%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-1	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	100%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	102%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	99%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-1	96%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	101%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	102%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
PAHs in Soil			Base + Duplicate + %RPD		
Date extracted	-	[NT]	[NT]	6565-1	02/07/2015
Date analysed	-	[NT]	[NT]	6565-1	04/07/2015
Naphthalene	mg/kg	[NT]	[NT]	6565-1	106%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	6565-1	104%
Phenanthrene	mg/kg	[NT]	[NT]	6565-1	109%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	6565-1	110%
Pyrene	mg/kg	[NT]	[NT]	6565-1	115%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	6565-1	111%
Benzo(b,j&k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	6565-1	104%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]

Client Reference: E27556K - Austal

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	[NT]	[NT]	6565-1	98%
QUALITY CONTROL OCP in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	6565-1	02/07/2015
Date analysed	-	[NT]	[NT]	6565-1	04/07/2015
alpha-BHC	mg/kg	[NT]	[NT]	6565-1	104%
Hexachlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	6565-1	103%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	[NT]	[NT]	6565-1	81%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	6565-1	110%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	6565-1	105%
gamma-Chlordane	mg/kg	[NT]	[NT]	6565-1	108%
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	6565-1	109%
Dieldrin	mg/kg	[NT]	[NT]	6565-1	103%
Endrin	mg/kg	[NT]	[NT]	6565-1	76%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDD	mg/kg	[NT]	[NT]	6565-1	138%
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	6565-1	78%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	6565-1	99%

Client Reference: E27556K - Austal

QUALITY CONTROL OP in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	6565-1	02/07/2015
Date analysed	-	[NT]	[NT]	6565-1	04/07/2015
Azinphos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	[NT]	[NT]	6565-1	98%
Chlorpyrifos-methyl	mg/kg	[NT]	[NT]	6565-1	101%
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dichlorovos	mg/kg	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	6565-1	88%
Fenitrothion	mg/kg	[NT]	[NT]	6565-1	87%
Malathion	mg/kg	[NT]	[NT]	[NR]	[NR]
Parathion	mg/kg	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	6565-1	99%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	6565-1	02/07/2015
Date analysed	-	[NT]	[NT]	6565-1	04/07/2015
Aroclor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	[NT]	[NT]	6565-1	104%
Aroclor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	6565-1	99%

Report Comments:

Asbestos ID was analysed by Approved Identifier:
Asbestos ID was authorised by Approved Signatory:

Not applicable for this job
Not applicable for this job

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

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.

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.

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Mitch Delaney

Sample log in details:

Your reference:
Envirolab Reference:
Date received:
Date results expected to be reported:

E27556K - Austal
6565
02/07/2015
8/07/15

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 Soil
Turnaround time requested:	Standard
Temperature on receipt	5.8C
Cooling Method:	Ice Pack
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.
Other samples such as filters, tubes and air toxics cans may be used entirely during testing.

Contact details:

Please direct any queries to Analisa Mathrick on amathrick@envirolab.com.au or
Chris De Luca on cdeluca@envirolab.com.au
ph: 03 9763 2500 fax: 03 9763 2633

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: E27566K Date Results Required: STANDARD Page: 1	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: <i>Nick Delaney</i>
---	--	---

Location: Austral	Sample Preserved in Esky on ice
Sampler: JDC	Tests Required

Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos
30/06/2015	1	TP28	0-0.2	G.A	0	Soil				X					
	2	↓	0.3-0.5	↓	↓	↓			X						
	3	TP29	0.1	A	-	Material									X
	4	↓	0-0.2	G.A	0	Soil				X					
	5	↓	0.3-0.5	↓						X					
	6	TP30	0-0.2							X					
	7	↓	0.3-0.5						X						
	8	TP31	0-0.2							X					
	9	↓	0.4-0.5							X					
	10	TP32	0-0.1							X					
	11	↓	0.2-0.4							X					
	12	TP33	0-0.2							X					
	13	↓	0.5-0.7							X					
	14	↓	0.7-0.9						X						
	15	A	-							X					
	16	B	-							X					
	17	C	-							X					
	18	FJS1	-	A	-	Material									X
	19	DUPJDC1	-	G	-	Soil			X						
		DUPJDC2	-	↓	-	↓			X						
20/6/15	20	TS1	-	G	-	Sand									
30/6/15	21	TBI	-	G	-	Sand									

EnviroLab Services
 190 Moore Drive
 Macquarie Park
 Sydney VIC 3179
 Tel: (02) 9753 2500
 Job No: 1565
 Date Received: 2/7/15
 Time Received: 12:05
 Receiver: [Signature]
 Temp Cool/Insulant: 5.8°C
 Cooling: Ice/Icepack
 Security: Intact/Broken: None

Please Send DUP5 DC2 to EnviroLab Melbourne

Remarks (comments/detection limits required): Relinquished by: PT (GWS) 31/7/15 12:00		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: [Signature]	Date: 30/6/15	Time: 30/6/15	Received By: [Signature] Date: 15/15

Received by: M-SAAD (GWS) 2/7/15 12:05

130374
 Date Received: 30/6/2015
 Time Received: 15:15
 Receiver: [Signature]
 Temp Cool/Insulant: 10.2
 Cooling: Ice/Icepack
 Security: Intact/Broken: None

CERTIFICATE OF ANALYSIS

133837

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K, Austral

No. of samples:

43 soils

Date samples received / completed instructions received

04/09/15

/ 04/09/15

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: / Issue Date:

11/09/15

/ 10/09/15

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	133837-1	133837-2	133837-3	133837-4	133837-6
Your Reference	-----	TP34	TP34	TP35	TP35	TP36
Depth	-----	0-0.15	0.3-0.5	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	91	88	89	80	88

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	133837-8	133837-10	133837-11	133837-12	133837-13
Your Reference	-----	TP37	TP38	TP38	TP38	TP39
Depth	-----	0-0.2	0-0.2	0.3-0.5	0.6-0.8	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	104	96	98	96	99

vTRH(C6-C10)/BTEXN in Soil	UNITS	133837-14	133837-15	133837-16	133837-17	133837-18
Our Reference:	-----	TP39	TP40	TP40	TP41	TP41
Your Reference	-----	0.3-0.5	0-0.15	0.3-0.5	0-0.2	0.4-0.6
Depth		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	90	99	98	103	95

vTRH(C6-C10)/BTEXN in Soil	UNITS	133837-19	133837-21	133837-23	133837-24	133837-25
Our Reference:	-----	TP42	TP43	TP44	TP44	TP45
Your Reference	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Depth		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	94	95	94	93	98

vTRH(C6-C10)/BTEXN in Soil	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Our Reference:	-----	TP46	TP47	TP47	TP47	TP48
Your Reference	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Depth		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	92	85	68	100	102

vTRH(C6-C10)/BTEXN in Soil	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Our Reference:	-----	TP48	TP49	TP50	TP50	TP50
Your Reference	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Depth		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRHC ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPHC 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
Surrogate aaa-Trifluorotoluene	%	104	99	99	93	112

vTRH(C6-C10)/BTEXN in Soil				
Our Reference:	UNITS	133837-39	133837-40	133837-43
Your Reference	-----	TP50	DUPHLS1	TS1
Depth	-----	1.4-1.6	-	-
Date Sampled		03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015
TRHC ₆ - C ₉	mg/kg	<25	<25	[NA]
TRHC ₆ - C ₁₀	mg/kg	<25	<25	[NA]
vTPHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	98%
Toluene	mg/kg	<0.5	<0.5	100%
Ethylbenzene	mg/kg	<1	<1	95%
m+p-xylene	mg/kg	<2	<2	93%
o-Xylene	mg/kg	<1	<1	92%
naphthalene	mg/kg	<1	<1	[NA]
Surrogate aaa-Trifluorotoluene	%	92	95	96

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-1 TP34 0-0.15 03/09/2015 Soil	133837-2 TP34 0.3-0.5 03/09/2015 Soil	133837-3 TP35 0-0.2 03/09/2015 Soil	133837-4 TP35 0.3-0.5 03/09/2015 Soil	133837-6 TP36 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	104	96	103	101	98

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-8 TP37 0-0.2 03/09/2015 Soil	133837-10 TP38 0-0.2 03/09/2015 Soil	133837-11 TP38 0.3-0.5 03/09/2015 Soil	133837-12 TP38 0.6-0.8 03/09/2015 Soil	133837-13 TP39 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	09/09/2015	09/09/2015	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	99	77	74	76	76

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-14 TP39 0.3-0.5 03/09/2015 Soil	133837-15 TP40 0-0.15 03/09/2015 Soil	133837-16 TP40 0.3-0.5 03/09/2015 Soil	133837-17 TP41 0-0.2 03/09/2015 Soil	133837-18 TP41 0.4-0.6 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	09/09/2015	09/09/2015	09/09/2015	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	77	80	77	78	78

svTRH (C10-C40) in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-19 TP42 0-0.2 03/09/2015 Soil	133837-21 TP43 0-0.2 03/09/2015 Soil	133837-23 TP44 0-0.2 03/09/2015 Soil	133837-24 TP44 0.3-0.5 03/09/2015 Soil	133837-25 TP45 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	09/09/2015	09/09/2015	09/09/2015	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	79	79	76	78	78

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Your Reference	-----	TP46	TP47	TP47	TP47	TP48
Depth	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	09/09/2015	09/09/2015	09/09/2015	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	74	75	80	77	75

svTRH (C10-C40) in Soil						
Our Reference:	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Your Reference	-----	TP48	TP49	TP50	TP50	TP50
Depth	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	09/09/2015	09/09/2015	09/09/2015	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	79	78	76	78	76

svTRH (C10-C40) in Soil			
Our Reference:	UNITS	133837-39	133837-40
Your Reference	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date extracted	-	07/09/2015	07/09/2015
Date analysed	-	09/09/2015	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100
TRHC 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
Surrogate o-Terphenyl	%	76	75

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-1 TP34 0-0.15 03/09/2015 Soil	133837-2 TP34 0.3-0.5 03/09/2015 Soil	133837-3 TP35 0-0.2 03/09/2015 Soil	133837-4 TP35 0.3-0.5 03/09/2015 Soil	133837-6 TP36 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	112	110	114	110	102

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-8 TP37 0-0.2 03/09/2015 Soil	133837-10 TP38 0-0.2 03/09/2015 Soil	133837-11 TP38 0.3-0.5 03/09/2015 Soil	133837-12 TP38 0.6-0.8 03/09/2015 Soil	133837-13 TP39 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	115	111	109	114	105

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-14 TP39 0.3-0.5 03/09/2015 Soil	133837-15 TP40 0-0.15 03/09/2015 Soil	133837-16 TP40 0.3-0.5 03/09/2015 Soil	133837-17 TP41 0-0.2 03/09/2015 Soil	133837-18 TP41 0.4-0.6 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	113	110	111	110	111

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-19 TP42 0-0.2 03/09/2015 Soil	133837-21 TP43 0-0.2 03/09/2015 Soil	133837-23 TP44 0-0.2 03/09/2015 Soil	133837-24 TP44 0.3-0.5 03/09/2015 Soil	133837-25 TP45 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	110	114	110	109	111

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-27 TP46 0-0.2 03/09/2015 Soil	133837-29 TP47 0-0.2 03/09/2015 Soil	133837-30 TP47 0.4-0.6 03/09/2015 Soil	133837-31 TP47 0.8-1.0 03/09/2015 Soil	133837-32 TP48 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	108	110	113	112	111

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-33 TP48 0.3-0.5 03/09/2015 Soil	133837-34 TP49 0-0.2 03/09/2015 Soil	133837-36 TP50 0-0.2 03/09/2015 Soil	133837-37 TP50 0.6-0.8 03/09/2015 Soil	133837-38 TP50 1.0-1.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
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
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
Total Positive PAHs	mg/kg	NIL (+)VE	0.10	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	111	111	109	111	109

PAHs in Soil			
Our Reference:	UNITS	133837-39	133837-40
Your Reference	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date extracted	-	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5
Total Positive PAHs	mg/kg	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	111	109

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-1	133837-2	133837-3	133837-4	133837-6
Your Reference	-----	TP34	TP34	TP35	TP35	TP36
Depth	-----	0-0.15	0.3-0.5	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	89	100	93	93	88

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-8	133837-10	133837-11	133837-12	133837-13
Your Reference	-----	TP37	TP38	TP38	TP38	TP39
Depth	-----	0-0.2	0-0.2	0.3-0.5	0.6-0.8	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	90	90	90	110	86

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-14	133837-15	133837-16	133837-17	133837-18
Your Reference	-----	TP39	TP40	TP40	TP41	TP41
Depth	-----	0.3-0.5	0-0.15	0.3-0.5	0-0.2	0.4-0.6
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	89	92	89	90	90

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-19	133837-21	133837-23	133837-24	133837-25
Your Reference	-----	TP42	TP43	TP44	TP44	TP45
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	93	100	89	88	88

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Your Reference	-----	TP46	TP47	TP47	TP47	TP48
Depth	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	88	90	92	88	88

Organochlorine Pesticides in soil						
Our Reference:	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Your Reference	-----	TP48	TP49	TP50	TP50	TP50
Depth	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCMX	%	88	90	90	89	91

Organochlorine Pesticides in soil			
Our Reference:	UNITS	133837-39	133837-40
Your Reference	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date extracted	-	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015
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
Surrogate TCMX	%	101	86

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-1	133837-2	133837-3	133837-4	133837-6
Your Reference	-----	TP34	TP34	TP35	TP35	TP36
Depth	-----	0-0.15	0.3-0.5	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	100	93	93	88

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-8	133837-10	133837-11	133837-12	133837-13
Your Reference	-----	TP37	TP38	TP38	TP38	TP39
Depth	-----	0-0.2	0-0.2	0.3-0.5	0.6-0.8	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	90	90	90	110	86

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-14	133837-15	133837-16	133837-17	133837-18
Your Reference	-----	TP39	TP40	TP40	TP41	TP41
Depth	-----	0.3-0.5	0-0.15	0.3-0.5	0-0.2	0.4-0.6
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	89	92	89	90	90

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-19	133837-21	133837-23	133837-24	133837-25
Your Reference	-----	TP42	TP43	TP44	TP44	TP45
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	93	100	89	88	88

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Your Reference	-----	TP46	TP47	TP47	TP47	TP48
Depth	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	90	92	88	88

Organophosphorus Pesticides						
Our Reference:	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Your Reference	-----	TP48	TP49	TP50	TP50	TP50
Depth	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	88	90	90	89	91

Organophosphorus Pesticides			
Our Reference:	UNITS	133837-39	133837-40
Your Reference	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date extracted	-	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1
Dichlorvos	mg/kg	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1
Surrogate TCMX	%	101	86

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-1 TP34 0-0.15 03/09/2015 Soil	133837-2 TP34 0.3-0.5 03/09/2015 Soil	133837-3 TP35 0-0.2 03/09/2015 Soil	133837-4 TP35 0.3-0.5 03/09/2015 Soil	133837-6 TP36 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	89	100	93	93	88

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-8 TP37 0-0.2 03/09/2015 Soil	133837-10 TP38 0-0.2 03/09/2015 Soil	133837-11 TP38 0.3-0.5 03/09/2015 Soil	133837-12 TP38 0.6-0.8 03/09/2015 Soil	133837-13 TP39 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	90	90	90	110	86

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-14 TP39 0.3-0.5 03/09/2015 Soil	133837-15 TP40 0-0.15 03/09/2015 Soil	133837-16 TP40 0.3-0.5 03/09/2015 Soil	133837-17 TP41 0-0.2 03/09/2015 Soil	133837-18 TP41 0.4-0.6 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	89	92	89	90	90

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-19 TP42 0-0.2 03/09/2015 Soil	133837-21 TP43 0-0.2 03/09/2015 Soil	133837-23 TP44 0-0.2 03/09/2015 Soil	133837-24 TP44 0.3-0.5 03/09/2015 Soil	133837-25 TP45 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	93	100	89	88	88

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-27 TP46 0-0.2 03/09/2015 Soil	133837-29 TP47 0-0.2 03/09/2015 Soil	133837-30 TP47 0.4-0.6 03/09/2015 Soil	133837-31 TP47 0.8-1.0 03/09/2015 Soil	133837-32 TP48 0-0.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	88	90	92	88	88

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-33 TP48 0.3-0.5 03/09/2015 Soil	133837-34 TP49 0-0.2 03/09/2015 Soil	133837-36 TP50 0-0.2 03/09/2015 Soil	133837-37 TP50 0.6-0.8 03/09/2015 Soil	133837-38 TP50 1.0-1.2 03/09/2015 Soil
Date extracted	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	88	90	90	89	91

PCBs in Soil			
Our Reference:	UNITS	133837-39	133837-40
Your Reference:	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date extracted	-	07/09/2015	07/09/2015
Date analysed	-	07/09/2015	07/09/2015
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
Surrogate TCLMX	%	101	86

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-1	133837-2	133837-3	133837-4	133837-6
Your Reference	-----	TP34	TP34	TP35	TP35	TP36
Depth	-----	0-0.15	0.3-0.5	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	13	10	10	10	11
Cadmium	mg/kg	0.6	0.6	<0.4	<0.4	0.6
Chromium	mg/kg	29	22	26	26	40
Copper	mg/kg	21	36	18	31	12
Lead	mg/kg	29	20	29	19	26
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	19	13	15	10
Zinc	mg/kg	65	78	47	63	23

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-8	133837-10	133837-11	133837-12	133837-13
Your Reference	-----	TP37	TP38	TP38	TP38	TP39
Depth	-----	0-0.2	0-0.2	0.3-0.5	0.6-0.8	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	13	7	12	9	10
Cadmium	mg/kg	0.8	<0.4	0.6	0.5	0.5
Chromium	mg/kg	44	19	34	25	35
Copper	mg/kg	9	23	15	24	9
Lead	mg/kg	25	15	26	18	24
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	10	6	7
Zinc	mg/kg	15	45	18	34	10

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-14	133837-15	133837-16	133837-17	133837-18
Your Reference	-----	TP39	TP40	TP40	TP41	TP41
Depth	-----	0.3-0.5	0-0.15	0.3-0.5	0-0.2	0.4-0.6
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	10	11	21	10	12
Cadmium	mg/kg	0.5	0.4	<0.4	0.4	<0.4
Chromium	mg/kg	30	26	15	25	28
Copper	mg/kg	13	23	20	19	26
Lead	mg/kg	21	27	17	23	18
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	19	6	18	17
Zinc	mg/kg	12	44	24	44	60

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-19	133837-21	133837-23	133837-24	133837-25
Your Reference	-----	TP42	TP43	TP44	TP44	TP45
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	12	17	9	6	13
Cadmium	mg/kg	0.9	0.7	0.4	<0.4	0.5
Chromium	mg/kg	35	31	29	13	27
Copper	mg/kg	14	19	13	14	17
Lead	mg/kg	34	30	25	15	37
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	18	13	9	3	12
Zinc	mg/kg	65	57	17	15	33

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Your Reference	-----	TP46	TP47	TP47	TP47	TP48
Depth	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	12	<4	12	10	14
Cadmium	mg/kg	0.5	<0.4	0.6	0.5	0.7
Chromium	mg/kg	29	11	29	32	29
Copper	mg/kg	17	21	19	19	10
Lead	mg/kg	31	10	31	23	24
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	10	14	8	6
Zinc	mg/kg	29	59	100	24	13

Acid Extractable metals in soil						
Our Reference:	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Your Reference	-----	TP48	TP49	TP50	TP50	TP50
Depth	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	13	10	8	13	9
Cadmium	mg/kg	0.5	0.6	<0.4	0.7	0.5
Chromium	mg/kg	29	26	19	41	20
Copper	mg/kg	19	19	18	13	24
Lead	mg/kg	23	38	16	26	20
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	19	8	9	7
Zinc	mg/kg	22	75	39	22	37

Acid Extractable metals in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-39 TP50 1.4-1.6 03/09/2015 Soil	133837-40 DUPHLS1 - 03/09/2015 Soil	133837-42 TBS1 - 03/09/2015 Soil	133837-44 TP47 - TRIPLICATE 0-0.2 03/09/2015 Soil
Date prepared	-	07/09/2015	07/09/2015	07/09/2015	07/09/2015
Date analysed	-	08/09/2015	08/09/2015	08/09/2015	08/09/2015
Arsenic	mg/kg	5	12	<4	6
Cadmium	mg/kg	<0.4	0.5	<0.4	0.4
Chromium	mg/kg	10	28	<1	10
Copper	mg/kg	13	19	<1	58
Lead	mg/kg	14	34	<1	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	14	<1	20
Zinc	mg/kg	19	47	<1	140

Moisture						
Our Reference:	UNITS	133837-1	133837-2	133837-3	133837-4	133837-6
Your Reference	-----	TP34	TP34	TP35	TP35	TP36
Depth	-----	0-0.15	0.3-0.5	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	25	22	26	20	21

Moisture						
Our Reference:	UNITS	133837-8	133837-10	133837-11	133837-12	133837-13
Your Reference	-----	TP37	TP38	TP38	TP38	TP39
Depth	-----	0-0.2	0-0.2	0.3-0.5	0.6-0.8	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	18	26	20	24	16

Moisture						
Our Reference:	UNITS	133837-14	133837-15	133837-16	133837-17	133837-18
Your Reference	-----	TP39	TP40	TP40	TP41	TP41
Depth	-----	0.3-0.5	0-0.15	0.3-0.5	0-0.2	0.4-0.6
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	22	24	21	21	23

Moisture						
Our Reference:	UNITS	133837-19	133837-21	133837-23	133837-24	133837-25
Your Reference	-----	TP42	TP43	TP44	TP44	TP45
Depth	-----	0-0.2	0-0.2	0-0.2	0.3-0.5	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	26	26	20	23	25

Moisture						
Our Reference:	UNITS	133837-27	133837-29	133837-30	133837-31	133837-32
Your Reference	-----	TP46	TP47	TP47	TP47	TP48
Depth	-----	0-0.2	0-0.2	0.4-0.6	0.8-1.0	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	19	20	29	18	11

Moisture						
Our Reference:	UNITS	133837-33	133837-34	133837-36	133837-37	133837-38
Your Reference	-----	TP48	TP49	TP50	TP50	TP50
Depth	-----	0.3-0.5	0-0.2	0-0.2	0.6-0.8	1.0-1.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	7/09/2015	7/09/2015	7/09/2015	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Moisture	%	19	25	19	19	11

Moisture			
Our Reference:	UNITS	133837-39	133837-40
Your Reference	-----	TP50	DUPHLS1
Depth	-----	1.4-1.6	-
Date Sampled		03/09/2015	03/09/2015
Type of sample		Soil	Soil
Date prepared	-	7/09/2015	7/09/2015
Date analysed	-	8/09/2015	8/09/2015
Moisture	%	21	26

Asbestos ID - soils						
Our Reference:	UNITS	133837-1	133837-3	133837-6	133837-8	133837-10
Your Reference	-----	TP34	TP35	TP36	TP37	TP38
Depth	-----	0-0.15	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 70g	Approx. 75g
Sample Description	-	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain 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	133837-11	133837-13	133837-15	133837-17	133837-19
Your Reference	-----	TP38	TP39	TP40	TP41	TP42
Depth	-----	0.3-0.5	0-0.2	0-0.15	0-0.2	0-0.2
Date Sampled		03/09/2015	03/09/2015	03/09/2015	03/09/2015	03/09/2015
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Sample mass tested	g	Approx. 65g	Approx. 40g	Approx. 50g	Approx. 30g	Approx. 60g
Sample Description	-	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain 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: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-21 TP43 0-0.2 03/09/2015 Soil	133837-23 TP44 0-0.2 03/09/2015 Soil	133837-25 TP45 0-0.2 03/09/2015 Soil	133837-27 TP46 0-0.2 03/09/2015 Soil	133837-29 TP47 0-0.2 03/09/2015 Soil
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Sample mass tested	g	Approx. 40g	Approx. 50g	Approx. 50g	Approx. 70g	Approx. 45g
Sample Description	-	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain 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: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	133837-32 TP48 0-0.2 03/09/2015 Soil	133837-34 TP49 0-0.2 03/09/2015 Soil	133837-36 TP50 0-0.2 03/09/2015 Soil	133837-37 TP50 0.6-0.8 03/09/2015 Soil	133837-38 TP50 1.0-1.2 03/09/2015 Soil
Date analysed	-	8/09/2015	8/09/2015	8/09/2015	8/09/2015	8/09/2015
Sample mass tested	g	Approx. 65g	Approx. 45g	Approx. 45g	Approx. 50g	Approx. 45g
Sample Description	-	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain soil & rocks	Brown coarse-grain 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

Method ID	Methodology Summary
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)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
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-012 subset	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. 'TEQ 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. 'TEQ 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. 'TEQ 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-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.
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.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			08/09/2015	133837-1	08/09/2015 08/09/2015	LCS-5	08/09/2015
TRHC ₆ - C ₉	mg/kg	25	Org-016	<25	133837-1	<25 <25	LCS-5	104%
TRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	133837-1	<25 <25	LCS-5	104%
Benzene	mg/kg	0.2	Org-016	<0.2	133837-1	<0.2 <0.2	LCS-5	94%
Toluene	mg/kg	0.5	Org-016	<0.5	133837-1	<0.5 <0.5	LCS-5	99%
Ethylbenzene	mg/kg	1	Org-016	<1	133837-1	<1 <1	LCS-5	108%
m+p-xylene	mg/kg	2	Org-016	<2	133837-1	<2 <2	LCS-5	110%
o-Xylene	mg/kg	1	Org-016	<1	133837-1	<1 <1	LCS-5	105%
naphthalene	mg/kg	1	Org-014	<1	133837-1	<1 <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	102	133837-1	91 88 RPD: 3	LCS-5	103%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			09/09/2015	133837-1	08/09/2015 08/09/2015	LCS-5	08/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	133837-1	<50 <50	LCS-5	84%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	133837-1	<100 <100	LCS-5	76%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	133837-1	<100 <100	LCS-5	77%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	133837-1	<50 <50	LCS-5	84%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	133837-1	<100 <100	LCS-5	76%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	133837-1	<100 <100	LCS-5	77%
Surrogate o-Terphenyl	%		Org-003	77	133837-1	104 103 RPD: 1	LCS-5	107%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			08/09/2015	133837-1	08/09/2015 08/09/2015	LCS-5	08/09/2015
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	101%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	99%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	105%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	111%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	LCS-5	107%
Benzo(b,j,k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	133837-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	133837-1	<0.05 <0.05	LCS-5	124%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	113	133837-1	112 113 RPD: 1	LCS-5	112%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
HCB	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	76%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	82%
Heptachlor	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	85%
delta-BHC	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	89%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	89%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	84%
Dieldrin	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	96%
Endrin	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	99%
pp-DDD	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	88%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	LCS-5	97%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	93	133837-1	89 92 RPD: 3	LCS-5	104%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	92%
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	97%
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	81%
Dimethoate	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	102%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	120%
Malathion	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	81%
Parathion	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	LCS-5	99%
Ronnel	mg/kg	0.1	Org-008	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-008	93	133837-1	89 92 RPD: 3	LCS-5	91%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Date analysed	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-5	07/09/2015
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	LCS-5	102%
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	133837-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	93	133837-1	89 92 RPD: 3	LCS-5	90%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Date prepared	-			07/09/2015	133837-1	07/09/2015 07/09/2015	LCS-1	07/09/2015
Date analysed	-			08/09/2015	133837-1	08/09/2015 08/09/2015	LCS-1	08/09/2015
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	133837-1	13 11 RPD: 17	LCS-1	122%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	133837-1	0.6 0.6 RPD: 0	LCS-1	114%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	133837-1	29 24 RPD: 19	LCS-1	115%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	133837-1	21 23 RPD: 9	LCS-1	117%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	133837-1	29 30 RPD: 3	LCS-1	115%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	133837-1	<0.1 <0.1	LCS-1	92%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	133837-1	18 18 RPD: 0	LCS-1	110%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	133837-1	65 72 RPD: 10	LCS-1	111%
QUALITYCONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	133837-15		07/09/2015 07/09/2015		LCS-6	07/09/2015	
Date analysed	-	133837-15		08/09/2015 08/09/2015		LCS-6	08/09/2015	
TRHC ₆ - C ₉	mg/kg	133837-15		<25 <25		LCS-6	99%	
TRHC ₆ - C ₁₀	mg/kg	133837-15		<25 <25		LCS-6	99%	
Benzene	mg/kg	133837-15		<0.2 <0.2		LCS-6	92%	
Toluene	mg/kg	133837-15		<0.5 <0.5		LCS-6	99%	
Ethylbenzene	mg/kg	133837-15		<1 <1		LCS-6	100%	
m+p-xylene	mg/kg	133837-15		<2 <2		LCS-6	102%	
o-Xylene	mg/kg	133837-15		<1 <1		LCS-6	104%	
naphthalene	mg/kg	133837-15		<1 <1		[NR]	[NR]	
Surrogate aaa-Trifluorotoluene	%	133837-15		99 91 RPD: 8		LCS-6	98%	

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QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-15	07/09/2015 07/09/2015	LCS-6	07/09/2015
Date analysed	-	133837-15	09/09/2015 09/09/2015	LCS-6	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	133837-15	<50 <50	LCS-6	90%
TRHC ₁₅ - C ₂₃	mg/kg	133837-15	<100 <100	LCS-6	84%
TRHC ₂₉ - C ₃₆	mg/kg	133837-15	<100 <100	LCS-6	75%
TRH>C ₁₀ -C ₁₆	mg/kg	133837-15	<50 <50	LCS-6	90%
TRH>C ₁₆ -C ₃₄	mg/kg	133837-15	<100 <100	LCS-6	84%
TRH>C ₃₄ -C ₄₀	mg/kg	133837-15	<100 <100	LCS-6	75%
Surrogate o-Terphenyl	%	133837-15	80 80 RPD: 0	LCS-6	108%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-15	07/09/2015 07/09/2015	LCS-6	07/09/2015
Date analysed	-	133837-15	08/09/2015 08/09/2015	LCS-6	08/09/2015
Naphthalene	mg/kg	133837-15	<0.1 <0.1	LCS-6	98%
Acenaphthylene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	133837-15	<0.1 <0.1	LCS-6	96%
Phenanthrene	mg/kg	133837-15	<0.1 <0.1	LCS-6	108%
Anthracene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	133837-15	<0.1 0.1	LCS-6	102%
Pyrene	mg/kg	133837-15	<0.1 0.1	LCS-6	108%
Benzo(a)anthracene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	133837-15	<0.1 <0.1	LCS-6	103%
Benzo(b,j,k)fluoranthene	mg/kg	133837-15	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	133837-15	<0.05 <0.05	LCS-6	122%
Indeno(1,2,3-c,d)pyrene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	133837-15	110 106 RPD: 4	LCS-6	109%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-15	07/09/2015 07/09/2015	LCS-6	07/09/2015
Date analysed	-	133837-15	07/09/2015 07/09/2015	LCS-6	08/09/2015
HCB	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	133837-15	<0.1 <0.1	LCS-6	75%
gamma-BHC	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	133837-15	<0.1 <0.1	LCS-6	82%
Heptachlor	mg/kg	133837-15	<0.1 <0.1	LCS-6	87%
delta-BHC	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	133837-15	<0.1 <0.1	LCS-6	88%
Heptachlor Epoxide	mg/kg	133837-15	<0.1 <0.1	LCS-6	88%
gamma-Chlordane	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	133837-15	<0.1 <0.1	LCS-6	86%
Dieldrin	mg/kg	133837-15	<0.1 <0.1	LCS-6	95%
Endrin	mg/kg	133837-15	<0.1 <0.1	LCS-6	99%
pp-DDD	mg/kg	133837-15	<0.1 <0.1	LCS-6	95%
Endosulfan II	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	133837-15	<0.1 <0.1	LCS-6	89%
Methoxychlor	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-15	92 88 RPD: 4	LCS-6	102%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-15	07/09/2015 07/09/2015	LCS-6	07/09/2015
Date analysed	-	133837-15	07/09/2015 07/09/2015	LCS-6	08/09/2015
Azinphos-methyl (Guthion)	mg/kg	133837-15	<0.1 <0.1	LCS-6	88%
Bromophos-ethyl	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	133837-15	<0.1 <0.1	LCS-6	99%
Chlorpyrifos-methyl	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	133837-15	<0.1 <0.1	LCS-6	102%
Dimethoate	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	133837-15	<0.1 <0.1	LCS-6	114%
Fenitrothion	mg/kg	133837-15	<0.1 <0.1	LCS-6	116%
Malathion	mg/kg	133837-15	<0.1 <0.1	LCS-6	71%
Parathion	mg/kg	133837-15	<0.1 <0.1	LCS-6	106%
Ronnel	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-15	92 88 RPD: 4	LCS-6	90%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-15	07/09/2015 07/09/2015	LCS-6	07/09/2015
Date analysed	-	133837-15	07/09/2015 07/09/2015	LCS-6	08/09/2015
Aroclor 1016	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	133837-15	<0.1 <0.1	LCS-6	104%
Aroclor 1260	mg/kg	133837-15	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	133837-15	92 88 RPD: 4	LCS-6	88%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	133837-15	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-15	08/09/2015 08/09/2015	133837-2	08/09/2015
Arsenic	mg/kg	133837-15	11 11 RPD: 0	133837-2	91%
Cadmium	mg/kg	133837-15	0.4 0.4 RPD: 0	133837-2	90%
Chromium	mg/kg	133837-15	26 25 RPD: 4	133837-2	104%
Copper	mg/kg	133837-15	23 22 RPD: 4	133837-2	104%
Lead	mg/kg	133837-15	27 27 RPD: 0	133837-2	93%
Mercury	mg/kg	133837-15	<0.1 <0.1	133837-2	91%
Nickel	mg/kg	133837-15	19 18 RPD: 5	133837-2	92%
Zinc	mg/kg	133837-15	44 42 RPD: 5	133837-2	91%

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QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-29	08/09/2015 08/09/2015	133837-2	08/09/2015
TRHC ₆ - C ₉	mg/kg	133837-29	<25 <25	133837-2	99%
TRHC ₆ - C ₁₀	mg/kg	133837-29	<25 <25	133837-2	99%
Benzene	mg/kg	133837-29	<0.2 <0.2	133837-2	94%
Toluene	mg/kg	133837-29	<0.5 <0.5	133837-2	95%
Ethylbenzene	mg/kg	133837-29	<1 <1	133837-2	102%
m+p-xylene	mg/kg	133837-29	<2 <2	133837-2	103%
o-Xylene	mg/kg	133837-29	<1 <1	133837-2	101%
naphthalene	mg/kg	133837-29	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	133837-29	85 83 RPD: 2	133837-2	94%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-29	09/09/2015 09/09/2015	133837-2	08/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	133837-29	<50 <50	133837-2	112%
TRHC ₁₅ - C ₂₈	mg/kg	133837-29	<100 <100	133837-2	119%
TRHC ₂₉ - C ₃₆	mg/kg	133837-29	<100 <100	133837-2	112%
TRH>C ₁₀ -C ₁₆	mg/kg	133837-29	<50 <50	133837-2	112%
TRH>C ₁₆ -C ₃₄	mg/kg	133837-29	<100 <100	133837-2	119%
TRH>C ₃₄ -C ₄₀	mg/kg	133837-29	<100 <100	133837-2	112%
Surrogate o-Terphenyl	%	133837-29	75 77 RPD: 3	133837-2	109%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-29	07/09/2015 07/09/2015	133837-2	08/09/2015
Naphthalene	mg/kg	133837-29	<0.1 <0.1	133837-2	101%
Acenaphthylene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	133837-29	<0.1 <0.1	133837-2	93%
Phenanthrene	mg/kg	133837-29	<0.1 <0.1	133837-2	104%
Anthracene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	133837-29	<0.1 <0.1	133837-2	97%
Pyrene	mg/kg	133837-29	<0.1 <0.1	133837-2	103%
Benzo(a)anthracene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	133837-29	<0.1 <0.1	133837-2	98%
Benzo(b,j+k)fluoranthene	mg/kg	133837-29	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	133837-29	<0.05 <0.05	133837-2	114%
Indeno(1,2,3-c,d)pyrene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	133837-29	110 110 RPD: 0	133837-2	101%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
HCB	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	133837-29	<0.1 <0.1	133837-2	76%
gamma-BHC	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	133837-29	<0.1 <0.1	133837-2	81%
Heptachlor	mg/kg	133837-29	<0.1 <0.1	133837-2	87%
delta-BHC	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	133837-29	<0.1 <0.1	133837-2	89%
Heptachlor Epoxide	mg/kg	133837-29	<0.1 <0.1	133837-2	88%
gamma-Chlordane	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	133837-29	<0.1 <0.1	133837-2	86%
Dieldrin	mg/kg	133837-29	<0.1 <0.1	133837-2	96%
Endrin	mg/kg	133837-29	<0.1 <0.1	133837-2	99%
pp-DDD	mg/kg	133837-29	<0.1 <0.1	133837-2	94%
Endosulfan II	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	133837-29	<0.1 <0.1	133837-2	96%
Methoxychlor	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-29	90 88 RPD: 2	133837-2	90%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Date analysed	-	133837-29	07/09/2015 07/09/2015	133837-2	07/09/2015
Azinphos-methyl (Guthion)	mg/kg	133837-29	<0.1 <0.1	133837-2	94%
Bromophos-ethyl	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	133837-29	<0.1 <0.1	133837-2	96%
Chlorpyrifos-methyl	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	133837-29	<0.1 <0.1	133837-2	99%
Dimethoate	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	133837-29	<0.1 <0.1	133837-2	103%
Fenitrothion	mg/kg	133837-29	<0.1 <0.1	133837-2	120%
Malathion	mg/kg	133837-29	<0.1 <0.1	133837-2	76%
Parathion	mg/kg	133837-29	<0.1 <0.1	133837-2	101%
Ronnel	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-29	90 88 RPD: 2	133837-2	91%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-29	07/09/2015 07/09/2015	133837-2	7/09/2015
Date analysed	-	133837-29	07/09/2015 07/09/2015	133837-2	7/09/2015
Aroclor 1016	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	133837-29	<0.1 <0.1	133837-2	101%
Aroclor 1260	mg/kg	133837-29	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	133837-29	90 88 RPD: 2	133837-2	90%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	133837-29	07/09/2015 07/09/2015	LCS-2	07/09/2015
Date analysed	-	133837-29	08/09/2015 08/09/2015	LCS-2	08/09/2015
Arsenic	mg/kg	133837-29	<4 <4	LCS-2	115%
Cadmium	mg/kg	133837-29	<0.4 <0.4	LCS-2	108%
Chromium	mg/kg	133837-29	11 10 RPD: 10	LCS-2	109%
Copper	mg/kg	133837-29	21 40 RPD: 62	LCS-2	110%
Lead	mg/kg	133837-29	10 18 RPD: 57	LCS-2	108%
Mercury	mg/kg	133837-29	<0.1 <0.1	LCS-2	103%
Nickel	mg/kg	133837-29	10 13 RPD: 26	LCS-2	105%
Zinc	mg/kg	133837-29	59 82 RPD: 33	LCS-2	105%

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QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	08/09/2015 08/09/2015	133837-30	08/09/2015
TRHC ₆ - C ₉	mg/kg	133837-40	<25 <25	133837-30	99%
TRHC ₆ - C ₁₀	mg/kg	133837-40	<25 <25	133837-30	99%
Benzene	mg/kg	133837-40	<0.2 <0.2	133837-30	93%
Toluene	mg/kg	133837-40	<0.5 <0.5	133837-30	94%
Ethylbenzene	mg/kg	133837-40	<1 <1	133837-30	106%
m+p-xylene	mg/kg	133837-40	<2 <2	133837-30	102%
o-Xylene	mg/kg	133837-40	<1 <1	133837-30	104%
naphthalene	mg/kg	133837-40	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%	133837-40	95 94 RPD: 1	133837-30	95%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	09/09/2015 09/09/2015	133837-30	09/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	133837-40	<50 <50	133837-30	94%
TRHC ₁₅ - C ₂₈	mg/kg	133837-40	<100 <100	133837-30	85%
TRHC ₂₉ - C ₃₆	mg/kg	133837-40	<100 <100	133837-30	85%
TRH>C ₁₀ -C ₁₆	mg/kg	133837-40	<50 <50	133837-30	94%
TRH>C ₁₆ -C ₃₄	mg/kg	133837-40	<100 <100	133837-30	85%
TRH>C ₃₄ -C ₄₀	mg/kg	133837-40	<100 <100	133837-30	85%
Surrogate o-Terphenyl	%	133837-40	75 77 RPD: 3	133837-30	113%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	08/09/2015 08/09/2015	133837-30	08/09/2015
Naphthalene	mg/kg	133837-40	<0.1 <0.1	133837-30	97%
Acenaphthylene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	133837-40	<0.1 <0.1	133837-30	97%
Phenanthrene	mg/kg	133837-40	<0.1 <0.1	133837-30	106%
Anthracene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	133837-40	<0.1 <0.1	133837-30	100%
Pyrene	mg/kg	133837-40	<0.1 <0.1	133837-30	106%
Benzo(a)anthracene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	133837-40	<0.1 <0.1	133837-30	100%
Benzo(b,j,k)fluoranthene	mg/kg	133837-40	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	133837-40	<0.05 <0.05	133837-30	119%
Indeno(1,2,3-c,d)pyrene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	133837-40	109 113 RPD: 4	133837-30	106%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	07/09/2015 07/09/2015	133837-30	08/09/2015
HCB	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	133837-40	<0.1 <0.1	133837-30	78%
gamma-BHC	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	133837-40	<0.1 <0.1	133837-30	75%
Heptachlor	mg/kg	133837-40	<0.1 <0.1	133837-30	90%
delta-BHC	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	133837-40	<0.1 <0.1	133837-30	90%
Heptachlor Epoxide	mg/kg	133837-40	<0.1 <0.1	133837-30	86%
gamma-Chlordane	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	133837-40	<0.1 <0.1	133837-30	89%
Dieldrin	mg/kg	133837-40	<0.1 <0.1	133837-30	98%
Endrin	mg/kg	133837-40	<0.1 <0.1	133837-30	99%
pp-DDD	mg/kg	133837-40	<0.1 <0.1	133837-30	95%
Endosulfan II	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	133837-40	<0.1 <0.1	133837-30	97%
Methoxychlor	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-40	86 90 RPD: 5	133837-30	90%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	07/09/2015 07/09/2015	133837-30	08/09/215
Azinphos-methyl (Guthion)	mg/kg	133837-40	<0.1 <0.1	133837-30	93%
Bromophos-ethyl	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	133837-40	<0.1 <0.1	133837-30	105%
Chlorpyriphos-methyl	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Diazinon	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Dichlorvos	mg/kg	133837-40	<0.1 <0.1	133837-30	120%
Dimethoate	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	133837-40	<0.1 <0.1	133837-30	107%
Fenitrothion	mg/kg	133837-40	<0.1 <0.1	133837-30	117%
Malathion	mg/kg	133837-40	<0.1 <0.1	133837-30	93%
Parathion	mg/kg	133837-40	<0.1 <0.1	133837-30	108%
Ronnel	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%	133837-40	86 90 RPD: 5	133837-30	90%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	07/09/2015 07/09/2015	133837-30	08/09/2015
Aroclor 1016	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aroclor 1221	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aroclor 1232	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aroclor 1242	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aroclor 1248	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Aroclor 1254	mg/kg	133837-40	<0.1 <0.1	133837-30	102%
Aroclor 1260	mg/kg	133837-40	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	133837-40	86 90 RPD: 5	133837-30	90%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	133837-40	07/09/2015 07/09/2015	133837-30	07/09/2015
Date analysed	-	133837-40	08/09/2015 08/09/2015	133837-30	08/09/2015
Arsenic	mg/kg	133837-40	12 12 RPD: 0	133837-30	102%
Cadmium	mg/kg	133837-40	0.5 0.6 RPD: 18	133837-30	106%
Chromium	mg/kg	133837-40	28 30 RPD: 7	133837-30	99%
Copper	mg/kg	133837-40	19 16 RPD: 17	133837-30	124%
Lead	mg/kg	133837-40	34 31 RPD: 9	133837-30	107%
Mercury	mg/kg	133837-40	<0.1 <0.1	133837-30	99%
Nickel	mg/kg	133837-40	14 15 RPD: 7	133837-30	106%
Zinc	mg/kg	133837-40	47 44 RPD: 7	133837-30	86%

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QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	LCS-3	07/09/2015
Date analysed	-	[NT]	[NT]	LCS-3	08/09/2015
Arsenic	mg/kg	[NT]	[NT]	LCS-3	115%
Cadmium	mg/kg	[NT]	[NT]	LCS-3	109%
Chromium	mg/kg	[NT]	[NT]	LCS-3	111%
Copper	mg/kg	[NT]	[NT]	LCS-3	110%
Lead	mg/kg	[NT]	[NT]	LCS-3	111%
Mercury	mg/kg	[NT]	[NT]	LCS-3	104%
Nickel	mg/kg	[NT]	[NT]	LCS-3	106%
Zinc	mg/kg	[NT]	[NT]	LCS-3	106%

Report Comments:

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 133837-29 for Cu, Pb. Therefore a triplicate result has been issued as laboratory sample number 133837-44.

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

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.

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.

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556K, Austral
Envirolab Reference	133837
Date Sample Received	04/09/2015
Date Instructions Received	04/09/2015
Date Results Expected to be Reported	11/09/2015

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	43 soils
Turnaround Time Requested	Standard
Temperature on receipt (°C)	7.6
Cooling Method	Ice
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

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@envirolabservices.com.au	Email: jhurst@envirolabservices.com.au

Sample and Testing Details on following page

<i>Sample Id</i>	<i>vTRH(C6-C10)/BTEXN in Soil</i>	<i>svTRH (C10-C40) in Soil</i>	<i>PAHs in Soil</i>	<i>Organochlorine Pesticides in soil</i>	<i>Organophosphorus Pesticides</i>	<i>PCBs in Soil</i>	<i>Acid Extractable metals in soil</i>	<i>Asbestos ID - soils</i>	<i>On Hold</i>
TP34-0-0.15	✓	✓	✓	✓	✓	✓	✓	✓	
TP34-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP35-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP35-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP35-0.5-0.7									✓
TP36-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP36-0.3-0.5									✓
TP37-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP37-0.3-0.5									✓
TP38-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP38-0.3-0.5	✓	✓	✓	✓	✓	✓	✓	✓	
TP38-0.6-0.8	✓	✓	✓	✓	✓	✓	✓		
TP39-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP39-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP40-0-0.15	✓	✓	✓	✓	✓	✓	✓	✓	
TP40-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP41-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP41-0.4-0.6	✓	✓	✓	✓	✓	✓	✓		
TP42-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP42-0.3-0.5									✓
TP43-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP43-0.3-0.5									✓
TP44-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP44-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP45-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP45-0.4-0.6									✓
TP46-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP46-0.5-0.7									✓
TP47-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP47-0.4-0.6	✓	✓	✓	✓	✓	✓	✓		
TP47-0.8-1.0	✓	✓	✓	✓	✓	✓	✓		
TP48-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP48-0.3-0.5	✓	✓	✓	✓	✓	✓	✓		
TP49-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP49-0.3-0.5									✓
TP50-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP50-0.6-0.8	✓	✓	✓	✓	✓	✓	✓	✓	
TP50-1.0-1.2	✓	✓	✓	✓	✓	✓	✓	✓	
TP50-1.4-1.6	✓	✓	✓	✓	✓	✓	✓		
DUP HLS1	✓	✓	✓	✓	✓	✓	✓		
DUP HLS3									✓
TBS1							✓		
TS1	✓								

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: E 27556k Date Results Required: STANDARD Page: 1/2	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Mike Delaney
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Location: Austral							Sample Preserved in Esky on Ice												
Sampler: HL+SS							Tests Required												
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos				
3/9/15	1	TP34	0-0.15	G, A	0	Soil				X									
	2	↓	0.3-0.5	A					X										
	3	TP35	0-0.2	G, A						X									
	4	↓	0.3-0.5	G					X										
	5	↓	0.5-0.7	↓															
	6	TP36	0-0.2	G, A						X									
	7	↓	0.3-0.5	G															
	8	TP37	0-0.2	G, A						X									
	9	↓	0.3-0.5	G															
	10	TP38	0-0.2	G, A						X									
	11	↓	0.3-0.5	↓						X									
	12	↓	0.6-0.8	G					X										
	13	TP39	0-0.2	G, A						X									
	14	↓	0.3-0.5	G					X										
	15	TP40	0-0.15	G, A						X									
	16	↓	0.3-0.5	G					X										
	17	TP41	0-0.2	G, A						X									
	18	↓	0.4-0.6	G					X										
	19	TP42	0-0.2	G, A						X									
	20	↓	0.3-0.5	G															
	21	TP43	0-0.2	G, A						X									
	22	↓	0.3-0.5	G															
	23	TP44	0-0.2	G, A						X									
	24	↓	0.3-0.5	G					X										
	25	TP45	0-0.2	G, A						X									

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: <i>ms</i>	Date: 4/9/15	Time: pm	Received By: Daniel Ford
			Date: 4/9/15



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

Job No: 133837
Date Received: 4/9/15
Time Received: 12:15
Received by: D.F.
Temp: Cool/Ambient
Cooling: Icepack
Security: Intact/Broken/None

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: <u>E 27556k</u> Date Results Required: <u>STANDARD</u> Page: <u>2/2</u>	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: <u>Mitch Delaney</u>
---	--	---

Location: Austral							Sample Preserved in Esky on Ice													
Sampler: HL + JS							Tests Required													
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos					
3/9/15	26	TP45	0.4-0.6	G	0	Soil														
	27	TP46	0-0.2	G						X										
	28	↓	0.5-0.7	G																
	29	TP47	0-0.2	G						X										
	30	↓	0.4-0.6	↓					X											
	31	↓	0.8-1.0	G					X											
	32	TP48	0-0.2	G						X										
	33	↓	0.3-0.5	G					X											
	34	TP49	0-0.2	G						X										
	35	↓	0.3-0.5	G																
	36	TP50	0-0.2	G						X										
	37	↓	0.6-0.8	↓						X										
	38	↓	1.0-1.2	↓						X										
	39	↓	1.4-1.6	G					X											
		Dup HCL	X																	
	40	Dup HCL1	-						X											
		Dup HCL2	-						X		Please send Dup HCL2 to Enviro									
	41	Dup HCL3	-																	
3/9/15	42	TS1	-			Sand					X									
3/9/15	43	TS1	-			Sand									X					

Remarks (comments/detection limits required):		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: <u>ms</u>		Date: <u>4/9/15</u>	
Time: <u>pm</u>		Received By: <u>Daniel Ford</u>	
Date: <u>4/9/15</u>		Date: <u>4/9/15</u>	

Please send Dup HCL2 to Enviro Labs Vic

138837

CERTIFICATE OF ANALYSIS**6988****Client:****Environmental Investigation Services**

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney**Sample log in details:**

Your Reference:

E27556K - Austral

No. of samples:

1 Soil

Date samples received / completed instructions received

08/09/2015 / 08/09/2015

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: / Issue Date:

14/09/15 / 14/09/15

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.**Results Approved By:**

Analisa Mathrick

Laboratory Manager



vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
vTRHC ₆ - C ₉	mg/kg	<25
vTRHC ₆ - C ₁₀	mg/kg	<25
TRHC ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	78

TRH Soil C10-C40 NEPM		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH>C ₁₀ -C ₁₆	mg/kg	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH>C ₁₆ -C ₃₄	mg/kg	<100
TRH>C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	74

PAHs in Soil		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j&k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d ₁₄	%	110

OCP in Soil		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
alpha-BHC	mg/kg	<0.1
Hexachlorobenzene	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	120

OP in Soil Our Reference: Your Reference Type of sample Date Sampled	UNITS ----- -----	6988-1 DupHLS2 Soil 3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
Azinphos-methyl	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Dichlorovos	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Ethion	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Surrogate TCMX	%	120

PCBs in Soil		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date extracted	-	09/09/2015
Date analysed	-	10/09/2015
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCLMX	%	120

Acid Extractable metals in soil		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date digested	-	10/09/2015
Date analysed	-	10/09/2015
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.4
Chromium	mg/kg	23
Copper	mg/kg	16
Lead	mg/kg	16
Mercury	mg/kg	<0.1
Nickel	mg/kg	10
Zinc	mg/kg	29

Moisture		
Our Reference:	UNITS	6988-1
Your Reference	-----	DupHLS2
Type of sample	-----	Soil
Date Sampled		3/09/2015
Date prepared	-	9/09/2015
Date analysed	-	10/09/2015
Moisture	%	27

Method ID	Methodology Summary
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.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
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 subset	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. 'TEQ 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. 'TEQ 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. 'TEQ 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-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-006	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. 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-015	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 12 hours.

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Soil						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
vTRHC ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	77%
vTRHC ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	78%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	111%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	110%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	108%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	101%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	109%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	82	[NT]	[NT]	LCS-1	91%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
TRHSoil C10-C40 NEPM						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
TRHC ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	100%
TRHC ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	100%
TRHC ₂₈ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	94%
TRH>C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	100%
TRH>C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	100%
TRH>C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	99%
Surrogate o-Terphenyl	%		Org-003	74	[NT]	[NT]	LCS-1	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	110%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	104%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	106%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	112%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	94%
Benzo(b,j&k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-1	94%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate <i>p</i> -Terphenyl-d ₁₄	%		Org-012	112	[NT]	[NT]	LCS-1	96%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in Soil						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
alpha-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	110%
Hexachlorobenzene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	112%
gamma-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	120%
delta-BHC	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	130%
Heptachlor Epoxide	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	100%
gamma-Chlordane	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	100%
alpha-chlordane	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	104%
Dieldrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	108%
Endrin	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	78%
Endosulfan II	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDD	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	104%
Endrin Aldehyde	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	92%
Methoxychlor	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]

Client Reference: E27556K - Austral

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in Soil						Base II Duplicate II %RPD		
Surrogate TCMX	%		Org-012	118	[NT]	[NT]	LCS-1	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP in Soil						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
Azinphos-methyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Bromophos-ethyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS-1	94%
Chlorpyrifos-methyl	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS-1	94%
Diazinon	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Dichlorovos	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS-1	68%
Fenitrothion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	LCS-1	70%
Malathion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Parathion	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-015	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-015	118	[NT]	[NT]	LCS-1	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			09/09/2015	[NT]	[NT]	LCS-1	09/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
Aroclor 1016	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	LCS-1	126%
Aroclor 1260	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-015	118	[NT]	[NT]	LCS-1	104%

Client Reference: E27556K - Austral

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
Date analysed	-			10/09/2015	[NT]	[NT]	LCS-1	10/09/2015
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-1	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-1	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	99%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	98%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	97%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-1	101%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	100%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	99%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank				
Moisture								
Date prepared	-			[NT]				
Date analysed	-			[NT]				
Moisture	%	0.1	Inorg-008	[NT]				

Report Comments:

Asbestos ID was analysed by Approved Identifier:
Asbestos ID was authorised by Approved Signatory:

Not applicable for this job
Not applicable for this job

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

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.

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.

SAMPLE RECEIPT ADVICE

Client Details	
Client	Environmental Investigation Services
Attention	Mitch Delaney

Sample Login Details	
Your Reference	E27556K - Austral
Envirolab Reference	6988
Date Sample Received	08/09/2015
Date Instructions Received	08/09/2015
Date Results Expected to be Reported	14/09/2015

Sample Condition	
Samples received in appropriate condition for analysis	YES
No. of Samples Provided	1 Soil
Turnaround Time Requested	Standard
Temperature on receipt (°C)	11.4C
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments
Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples

Please direct any queries to:

Chris De Luca	Analisa Mathrick
Phone: 03 9763 2500	Phone: 03 9763 2500
Fax: 03 9763 2633	Fax: 03 9763 2633
Email: Cdeluca@envirolab.com.au	Email: amathrick@envirolab.com.au

Sample and Testing Details on following page



A division of Envirolab Group



Envirolab Services Pty Ltd - Melbourne
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1 Dalmore Drive, Scoresby, VIC 3179 Australia
Ph +613 9763 2500 Fax +613 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	OCP in Soil	OP in Soil	PCBs in Soil	Acid Extractable metals in soil
DupHLS2	✓	✓	✓	✓	✓	✓	✓

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: E 27556 k Date Results Required: STANDARD Page: 2/2	FROM: ENVIRONMENTAL INVESTIGATION SERVICES REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: <i>Mitchell Delaney</i>
---	--	---

Location: <i>Austral</i>							Sample Preserved in Esky on Ice									
Sampler: <i>HL + JS</i>							Tests Required									
Date Sampled	Lab Ref:	Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo 2	Combo 3a	Combo 6	Combo 6a	8 Metals	PAHs	TRH/BTEX	BTEX	Asbestos	
3/9/15	26	TP45	0.4-0.6	G	0	Soil										
	27	TP46	0-0.2	G.A						X						
	28	↓	0.5-0.7	G												
	29	TP47	0-0.2	G.A						X						
	30	↓	0.4-0.6	↓					X	X						
	31	↓	0.8-1.0	G					X	X						
	32	TP48	0-0.2	G.A						X						
	33	↓	0.3-0.5	G					X	X						
	34	TP49	0-0.2	G.A						X						
	35	↓	0.3-0.5	G						X						
	36	TP50	0-0.2	G.A						X						
	37	↓	0.6-0.8	↓						X						
	38	↓	1.0-1.2	↓						X						
	39	↓	1.4-1.6	G					X							
		<i>Dup HLS1</i>	X													
	40	<i>Dup HLS1</i>	-						X							
		<i>Dup HLS2</i>	-						X							
	41	<i>Dup HLS3</i>	-													
3/9/15	42	TS1	-			Sand				X						
3/9/15	43	TS1	-			Sand								X		

ENVIROLAB
 14 Dalmore Drive
 Scoresby VIC 3179
 PH: (03) 8763 1500
 Job No: *6038*
 Date Received: *8/9/15*
 Time Received: *11:30*
 Received by: *WLS*
 Temp: *Cool/Ambient*
 Cooling: *Ice/icepack*
 Security: *Intact/Broken/None*

Please send Dup HLS2 to EnviroLab VIC

Remarks (comments/detection limits required): <i>Relinquished by: PT(ELB) 7/9/15 12:00</i>		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag		133837
Relinquished By: <i>ms</i>	Date: <i>8/9/15</i>	Time: <i>pm</i>	Received By: <i>Daniel Ford</i>	Date: <i>4/9/15</i>

Received by: *M. SAAD EIS*
8/9/15 11:30

CERTIFICATE OF ANALYSIS

133830

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Mitch Delaney

Sample log in details:

Your Reference:

E27556K, Austral

No. of samples:

2 Waters

Date samples received / completed instructions received

04/09/15

/ 04/09/15

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: / Issue Date:

11/09/15

/ 16/09/15

Date of Preliminary Report:

Not Issued

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:



Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Water			
Our Reference:	UNITS	133830-1	133830-2
Your Reference	-----	DW1	TBW1
Date Sampled	-----	3/09/2015	3/09/2015
Type of sample		Water	Water
Date extracted	-	08/09/2015	08/09/2015
Date analysed	-	09/09/2015	09/09/2015
TRHC ₆ - C ₉	µg/L	<10	[NA]
TRHC ₆ - C ₁₀	µg/L	<10	[NA]
TRHC ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	[NA]
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	<1
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	<2	<2
o-xylene	µg/L	<1	<1
Naphthalene	µg/L	<1	[NA]
Surrogate Dibromofluoromethane	%	99	100
Surrogate toluene-d8	%	101	100
Surrogate 4-BFB	%	95	95

svTRH (C10-C40) in Water		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date extracted	-	07/09/2015
Date analysed	-	07/09/2015
TRHC ₁₀ - C ₁₄	µg/L	<50
TRHC ₁₅ - C ₂₈	µg/L	<100
TRHC ₂₉ - C ₃₆	µg/L	<100
TRH>C ₁₀ - C ₁₆	µg/L	<50
TRH>C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH>C ₁₆ - C ₃₄	µg/L	<100
TRH>C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	80

PAHs in Water - Low Level		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date extracted	-	07/09/2015
Date analysed	-	07/09/2015
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	NIL (+)VE
Surrogate p-Terphenyl-d14	%	83

OCP in water - trace level		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date extracted	-	14/09/2015
Date analysed	-	14/09/2015
HCb	µg/L	<0.001
Heptachlor	µg/L	<0.001
Heptachlor Epoxide	µg/L	<0.001
Aldrin	µg/L	<0.001
gamma-BHC (Lindane)	µg/L	<0.001
alpha-BHC	µg/L	<0.001
beta-BHC	µg/L	<0.001
delta-BHC	µg/L	<0.001
trans-Chlordane	µg/L	<0.001
cis-Chlordane	µg/L	<0.001
Oxychlordane	µg/L	<0.001
Dieldrin	µg/L	<0.001
p,p-DDE	µg/L	<0.001
p,p-DDD	µg/L	<0.001
p,p-DDT	µg/L	<0.001
Endrin	µg/L	<0.001
Endrin Aldehyde	µg/L	<0.001
Endrin Ketone	µg/L	<0.001
alpha-Endosulfan	µg/L	<0.001
beta-Endosulfan	µg/L	<0.001
Endosulfan Sulfate	µg/L	<0.001
Methoxychlor	µg/L	<0.001
Surrogate OC Recovery	%	142

OP Pesticides -Trace Level		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date prepared	-	14/09/2015
Date analysed	-	16/09/2015
Demeton-S-methyl	µg/L	<0.01
Dichlorvos	µg/L	<0.01
Diazinon	µg/L	<0.01
Dimethoate	µg/L	<0.01
Chlorpyrifos	µg/L	<0.01
Chlorpyrifos methyl	µg/L	<0.01
Malathion	µg/L	<0.01
Fenthion	µg/L	<0.01
Azinphos Ethyl	µg/L	<0.01
Azinphos Methyl	µg/L	<0.01
Chlorfenvinphos (E)	µg/L	<0.01
Chlorfenvinphos (Z)	µg/L	<0.01
Ethion	µg/L	<0.01
Fenitrothion	µg/L	<0.01
Parathion (Ethyl)	µg/L	<0.01
Parathion (Methyl)	µg/L	<0.01
Primiphos Ethyl	µg/L	<0.01
Primiphos Methyl	µg/L	<0.01
Surrogate OP Recovery - TPP	%	69

PCB in water - trace level		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date prepared	-	14/09/2015
Date analysed	-	16/09/2015
Aroclor 1016	µg/L	<0.01
Aroclor 1221	µg/L	<0.01
Aroclor 1232	µg/L	<0.01
Aroclor 1242	µg/L	<0.01
Aroclor 1248	µg/L	<0.01
Aroclor 1254	µg/L	<0.01
Aroclor 1260	µg/L	<0.01
Total PCB's (as above)	µg/L	<0.01

HM in water - dissolved		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date prepared	-	07/09/2015
Date analysed	-	07/09/2015
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	2
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	4

Miscellaneous Inorganics		
Our Reference:	UNITS	133830-1
Your Reference	-----	DW1
Date Sampled	-----	3/09/2015
Type of sample		Water
Date prepared	-	04/09/2015
Date analysed	-	04/09/2015
pH	pH Units	7.0
Electrical Conductivity	µS/cm	440
Hardness	mgCaCO ₃	86
	/L	
Calcium - Dissolved	mg/L	14
Magnesium - Dissolved	mg/L	12

Method ID	Methodology Summary
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)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
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-012 subset	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.
Ext-020	Analysis subcontracted to Australian Government - National Measurement Institute. NATA Accreditation No: 198
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25oC in accordance with APHA latest edition 2510 and Rayment & Lyons.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH(C6-C10)/BTEXN in Water						Base II Duplicate II %RPD		
Date extracted	-			08/09/2015	[NT]	[NT]	LCS-W1	08/09/2015
Date analysed	-			09/09/2015	[NT]	[NT]	LCS-W1	09/09/2015
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	92%
TRHC ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	92%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	90%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	92%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	92%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W1	94%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	93%
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluoromethane	%		Org-016	99	[NT]	[NT]	LCS-W1	99%
Surrogate toluene-d8	%		Org-016	99	[NT]	[NT]	LCS-W1	103%
Surrogate 4-BFB	%		Org-016	95	[NT]	[NT]	LCS-W1	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
svTRH (C10-C40) in Water						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	[NT]	[NT]	LCS-W1	07/09/2015
Date analysed	-			07/09/2015	[NT]	[NT]	LCS-W1	07/09/2015
TRHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	99%
TRHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	84%
TRHC ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	75%
TRH>C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W1	99%
TRH>C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	84%
TRH>C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W1	75%
Surrogate o-Terphenyl	%		Org-003	71	[NT]	[NT]	LCS-W1	99%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water - Low Level						Base II Duplicate II %RPD		
Date extracted	-			07/09/2015	[NT]	[NT]	LCS-W1	07/09/2015
Date analysed	-			07/09/2015	[NT]	[NT]	LCS-W1	07/09/2015
Naphthalene	µg/L	0.2	Org-012 subset	<0.2	[NT]	[NT]	LCS-W1	87%
Acenaphthylene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	82%
Phenanthrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water - Low Level						Base II Duplicate II %RPD		
Anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	85%
Pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	90%
Benzo(a)anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	83%
Benzo(b,j+k) fluoranthene	µg/L	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-W1	95%
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	77	[NT]	[NT]	LCS-W1	94%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water - trace level						Base II Duplicate II %RPD		
Date prepared	-			[NT]	[NT]	[NT]	[NR]	[NR]
Date analysed	-			[NT]	[NT]	[NT]	[NR]	[NR]
Date extracted	-			14/09/2015	[NT]	[NT]	LCS-W1	14/09/2015
Date analysed	-			16/09/2015	[NT]	[NT]	LCS-W1	16/09/2015
HCB	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Heptachlor	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	65%
Heptachlor Epoxide	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Aldrin	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	79%
gamma-BHC (Lindane)	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	84%
alpha-BHC	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
beta-BHC	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
delta-BHC	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
trans-Chlordane	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
cis-Chlordane	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Oxychlordane	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Dieldrin	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	86%
p,p-DDE	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
p,p-DDD	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
p,p-DDT	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	106%
Endrin	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	LCS-W1	93%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water - trace level						Base II Duplicate II %RPD		
Endrin Aldehyde	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
alpha-Endosulfan	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
beta-Endosulfan	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulfate	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Methoxychlor	µg/L	0.001	Ext-020	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate OC Recovery	%		Ext-020	[NT]	[NT]	[NT]	LCS-W1	76%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP Pesticides - Trace Level						Base II Duplicate II %RPD		
Date prepared	-			14/09/2015	[NT]	[NT]	LCS-W1	14/09/2015
Date analysed	-			16/09/2015	[NT]	[NT]	LCS-W1	16/09/2015
Demeton-S-methyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Dichlorvos	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Diazinon	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	LCS-W1	102%
Dimethoate	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	LCS-W1	102%
Chlorpyrifos methyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Malathion	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Fenthion	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Azinphos Ethyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Azinphos Methyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Chlorfenvinphos (E)	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Chlorfenvinphos (Z)	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Ethion	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	LCS-W1	114%
Fenitrothion	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Parathion (Ethyl)	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	LCS-W1	122%
Parathion (Methyl)	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Primiphos Ethyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Primiphos Methyl	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Surrogate OP Recovery - TPP	%		Ext-020	[NT]	[NT]	[NT]	LCS-W1	99%

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QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCB in water - trace level						Base II Duplicate II %RPD		
Date prepared	-			14/09/2015	[NT]	[NT]	LCS-W1	14/09/2015
Date analysed	-			16/09/2015	[NT]	[NT]	LCS-W1	16/09/2015
Aroclor 1016	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1221	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1232	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1242	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1248	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1254	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Aroclor 1260	µg/L	0.01	Ext-020	<0.01	[NT]	[NT]	[NR]	[NR]
Total PCB's (as above)	µg/L	0.010	Ext-020	<0.01	[NT]	[NT]	LCS-W1	84%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			07/09/2013	[NT]	[NT]	LCS-W1	07/09/2015
Date analysed	-			07/09/2015	[NT]	[NT]	LCS-W1	07/09/2015
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	98%
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	[NT]	[NT]	LCS-W1	100%
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	95%
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	94%
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	109%
Mercury-Dissolved	µg/L	0.05	Metals-021 CV-AAS	<0.05	[NT]	[NT]	LCS-W1	100%
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	95%
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	LCS-W1	96%

Client Reference: E27556K, Austral

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-			04/09/2015	[NT]	[NT]	LCS-W1	04/09/2015
Date analysed	-			04/09/2015	[NT]	[NT]	LCS-W1	04/09/2015
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	LCS-W1	101%
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	LCS-W1	98%
Hardness	mgCaCO ₃ /L	3		[NT]	[NT]	[NT]	[NR]	[NR]
Calcium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	LCS-W1	92%
Magnesium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	LCS-W1	93%

Report Comments:

OC/OP/PCB's in water analysed by NMI. Report No.RN1083002.

Asbestos ID was analysed by Approved Identifier:

Not applicable for this job

Asbestos ID was authorised by Approved Signatory:

Not applicable for this job

INS: Insufficient sample for this test

PQL: Practical Quantitation Limit

NT: Not tested

NA: Test not required

RPD: Relative Percent Difference

NA: Test not required

<: Less than

>: Greater than

LCS: Laboratory Control Sample

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.

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.