



APPENDIX B

(Laboratory Reports and Chain of Custody Documents)



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CERTIFICATE OF ANALYSIS 43806

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:	<u>E24125K, Pyrmont</u>
No. of samples:	55 Soils, 2 Waters
Date samples received:	22/07/10
Date completed instructions received:	22/07/10

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	29/07/10
Date of Preliminary Report:	Not Issued
Issue Date:	29/07/10

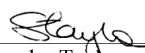
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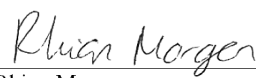
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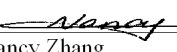
Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:


Sandra Taylor
Senior Organic Chemist


Rhian Morgan
Metals Supervisor


Nancy Zhang
Chemist


Matt Mansfield
Approved Signatory

Envirolab Reference: 43806
Revision No: R 00



vTPH & BTEX in Soil						
Our Reference:	UNITS	43806-1	43806-2	43806-4	43806-7	43806-9
Your Reference	-----	BH601	BH601	BH601	BH602	BH602
Depth	-----	0.3-0.5	0.6-0.95	3.2-3.45	0.3-0.5	1.7-1.92
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	120	115	114	110	116

vTPH & BTEX in Soil						
Our Reference:	UNITS	43806-10	43806-11	43806-12	43806-14	43806-16
Your Reference	-----	BH602	BH603	BH603	BH604	BH604
Depth	-----	2.8-3.0	0.3-0.5	0.9-1.2	0.3-0.5	1.7-1.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	106	116	114	111	109

vTPH & BTEX in Soil						
Our Reference:	UNITS	43806-17	43806-19	43806-20	43806-22	43806-24
Your Reference	-----	BH604	BH605	BH605	BH605	BH606
Depth	-----	3.2-3.45	0.7-0.95	1.3-1.5	3-3.45	0.3-0.5
Date Sampled		21/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	110	109	110	109	121

vTPH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-26 BH606 1.7-1.95 20/07/2010 Soil	43806-27 BH606 2.2-2.5 20/07/2010 Soil	43806-28 BH606 2.8-3.2 20/07/2010 Soil	43806-30 BH607 0.1-0.2 20/07/2010 Soil	43806-31 BH607 0.5-0.7 20/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<250	<25	<25	<25
Benzene	mg/kg	<0.5	<50	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<50	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<10	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<20	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<10	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	113	117	108	105	110

vTPH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-32 BH607 1.7-1.9 20/07/2010 Soil	43806-35 BH608 0.3-0.5 20/07/2010 Soil	43806-37 BH608 1.3-1.5 20/07/2010 Soil	43806-39 BH609 0.2-0.5 20/07/2010 Soil	43806-42 BH610 0.2-0.4 20/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	121	109	111	116	119

vTPH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-43 BH610 0.7-0.95 20/07/2010 Soil	43806-46 Dup3 - 20/07/2010 Soil	43806-47 Dup4 - 20/07/2010 Soil	43806-50 Trip Blank A - 20/07/2010 Soil	43806-51 Trip Spike A - 20/07/2010 Water
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	[NA]
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	100%
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	101%
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	102%
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	102%
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	101%
Surrogate aaa-Trifluorotoluene	%	105	114	113	113	115

vTPH & BTEX in Soil					
Our Reference:	UNITS	43806-53	43806-54	43806-56	43806-57
Your Reference	-----	Trip Blank B	Trip Spike B	Dup7	Dup8
Depth	-----	-	-	-	-
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
vTPH C ₆ - C ₉	mg/kg	<25	[NA]	<25	<25
Benzene	mg/kg	<0.5	102%	<0.5	<0.5
Toluene	mg/kg	<0.5	110%	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	116%	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	116%	<2.0	<2.0
o-Xylene	mg/kg	<1.0	117%	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	115	97	117	116

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-1	43806-2	43806-4	43806-7	43806-9
Your Reference	-----	BH601	BH601	BH601	BH602	BH602
Depth	-----	0.3-0.5	0.6-0.95	3.2-3.45	0.3-0.5	1.7-1.92
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	330	120	<100	<100	280
TPH C29 - C36	mg/kg	380	170	<100	<100	320
Surrogate o-Terphenyl	%	#	128	115	124	#

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-10	43806-11	43806-12	43806-14	43806-16
Your Reference	-----	BH602	BH603	BH603	BH604	BH604
Depth	-----	2.8-3.0	0.3-0.5	0.9-1.2	0.3-0.5	1.7-1.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	<50	<50	630	140
TPH C15 - C28	mg/kg	<100	<100	<100	2,000	490
TPH C29 - C36	mg/kg	<100	<100	<100	2,000	160
Surrogate o-Terphenyl	%	114	120	109	#	#

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-17	43806-19	43806-20	43806-22	43806-24
Your Reference	-----	BH604	BH605	BH605	BH605	BH606
Depth	-----	3.2-3.45	0.7-0.95	1.3-1.5	3-3.45	0.3-0.5
Date Sampled		21/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	<50	120	<50	<50
TPH C15 - C28	mg/kg	<100	<100	1,500	<100	220
TPH C29 - C36	mg/kg	<100	<100	<100	<100	110
Surrogate o-Terphenyl	%	114	119	#	121	#

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-26	43806-27	43806-28	43806-30	43806-31
Your Reference	-----	BH606	BH606	BH606	BH607	BH607
Depth	-----	1.7-1.95	2.2-2.5	2.8-3.2	0.1-0.2	0.5-0.7
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	7,000	120	<50	<50
TPH C15 - C28	mg/kg	<100	13,000	230	630	200
TPH C29 - C36	mg/kg	<100	2,100	<100	1,800	130
Surrogate o-Terphenyl	%	118	#	#	#	123

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-32	43806-35	43806-37	43806-39	43806-42
Your Reference	-----	BH607	BH608	BH608	BH609	BH610
Depth	-----	1.7-1.9	0.3-0.5	1.3-1.5	0.2-0.5	0.2-0.4
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	<50	76	53	<50
TPH C15 - C28	mg/kg	<100	290	150	<100	320
TPH C29 - C36	mg/kg	<100	790	<100	<100	620
Surrogate o-Terphenyl	%	117	138	#	119	#

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	43806-43	43806-46	43806-47	43806-56	43806-57
Your Reference	-----	BH610	Dup3	Dup4	Dup7	Dup8
Depth	-----	0.7-0.95	-	-	-	-
Date Sampled		20/07/2010	20/07/2010	20/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
TPH C10 - C14	mg/kg	<50	52	380	<50	490
TPH C15 - C28	mg/kg	150	<100	850	<100	1,800
TPH C29 - C36	mg/kg	160	<100	<100	<100	1,700
Surrogate o-Terphenyl	%	125	119	#	108	#

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-1 BH601 0.3-0.5 21/07/2010 Soil	43806-2 BH601 0.6-0.95 21/07/2010 Soil	43806-4 BH601 3.2-3.45 21/07/2010 Soil	43806-7 BH602 0.3-0.5 21/07/2010 Soil	43806-9 BH602 1.7-1.92 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Naphthalene	mg/kg	0.3	0.2	<0.1	<0.1	0.1
Acenaphthylene	mg/kg	0.3	0.3	<0.1	<0.1	0.2
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.2	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	2.6	1.1	<0.1	0.5	1
Anthracene	mg/kg	0.8	0.4	<0.1	<0.1	0.3
Fluoranthene	mg/kg	7.2	4.0	<0.1	1.1	2.7
Pyrene	mg/kg	7.0	3.9	<0.1	1.2	2.9
Benzo(a)anthracene	mg/kg	4.4	2.6	<0.1	0.6	1.8
Chrysene	mg/kg	3.2	2.0	<0.1	0.5	1.3
Benzo(b+k)fluoranthene	mg/kg	7.1	4.1	<0.2	1.1	3.6
Benzo(a)pyrene	mg/kg	6.1	3.4	<0.05	0.8	3.0
Indeno(1,2,3-c,d)pyrene	mg/kg	3.2	1.8	<0.1	0.4	1.7
Dibenzo(a,h)anthracene	mg/kg	0.6	0.4	<0.1	<0.1	0.3
Benzo(g,h,i)perylene	mg/kg	3.2	1.8	<0.1	0.4	1.7
Surrogate p- Terphenyl-d ₁₄	%	100	109	107	105	108

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-10 BH602 2.8-3.0 21/07/2010 Soil	43806-11 BH603 0.3-0.5 21/07/2010 Soil	43806-12 BH603 0.9-1.2 21/07/2010 Soil	43806-14 BH604 0.3-0.5 21/07/2010 Soil	43806-16 BH604 1.7-1.95 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
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	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	0.6	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	1.2	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.4	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	1	<0.2
Benzo(a)pyrene	mg/kg	0.1	<0.05	<0.05	0.8	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	0.4	<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	0.5	<0.1
Surrogate p- Terphenyl-d ₁₄	%	105	104	102	106	109

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-17 BH604 3.2-3.45 21/07/2010 Soil	43806-19 BH605 0.7-0.95 20/07/2010 Soil	43806-20 BH605 1.3-1.5 20/07/2010 Soil	43806-22 BH605 3-3.45 20/07/2010 Soil	43806-24 BH606 0.3-0.5 20/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
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	0.3	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.7	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.6	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	0.2	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.09	<0.05	0.08
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
Surrogate p- Terphenyl-d ₁₄	%	105	105	88	102	111

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-26 BH606 1.7-1.95 20/07/2010 Soil	43806-27 BH606 2.2-2.5 20/07/2010 Soil	43806-28 BH606 2.8-3.2 20/07/2010 Soil	43806-30 BH607 0.1-0.2 20/07/2010 Soil	43806-31 BH607 0.5-0.7 20/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Naphthalene	mg/kg	<0.1	25	0.2	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	4.5	<0.1	<0.1	1.3
Acenaphthene	mg/kg	<0.1	7.2	<0.1	<0.1	0.2
Fluorene	mg/kg	<0.1	28	0.3	<0.1	0.9
Phenanthrene	mg/kg	<0.1	38	0.5	<0.1	6.3
Anthracene	mg/kg	<0.1	6.7	<0.1	<0.1	1.5
Fluoranthene	mg/kg	<0.1	17	0.2	<0.1	7.3
Pyrene	mg/kg	<0.1	17	0.2	0.1	7.5
Benzo(a)anthracene	mg/kg	<0.1	13	0.1	<0.1	4.1
Chrysene	mg/kg	<0.1	10	0.1	<0.1	3.0
Benzo(b+k)fluoranthene	mg/kg	<0.2	28	0.2	0.2	5.3
Benzo(a)pyrene	mg/kg	<0.05	24	0.2	0.1	4.7
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	15	0.2	0.2	2.7
Dibenzo(a,h)anthracene	mg/kg	<0.1	2.5	<0.1	<0.1	0.5
Benzo(g,h,i)perylene	mg/kg	<0.1	14	0.2	0.2	2.6
Surrogate p- Terphenyl-d ₁₄	%	103	100	98	106	105

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-32 BH607 1.7-1.9 20/07/2010 Soil	43806-35 BH608 0.3-0.5 20/07/2010 Soil	43806-37 BH608 1.3-1.5 20/07/2010 Soil	43806-39 BH609 0.2-0.5 20/07/2010 Soil	43806-42 BH610 0.2-0.4 20/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	2.9
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.2
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.1	6.0
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	5.8
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	3.0
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	2.4
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	4.3
Benzo(a)pyrene	mg/kg	<0.05	0.07	<0.05	0.06	3.5
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.9
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.7
Surrogate p- Terphenyl-d ₁₄	%	106	105	106	103	106

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-43 BH610 0.7-0.95 20/07/2010 Soil	43806-46 Dup3 - 20/07/2010 Soil	43806-47 Dup4 - 20/07/2010 Soil	43806-56 Dup7 - 21/07/2010 Soil	43806-57 Dup8 - 21/07/2010 Soil
Date extracted	-	23/07/20100	23/07/20100	23/07/20100	23/07/20100	23/07/20100
Date analysed	-	24/07/20100	24/07/20100	24/07/20100	24/07/20100	24/07/20100
Naphthalene	mg/kg	0.2	<0.1	0.3	<0.1	0.1
Acenaphthylene	mg/kg	0.4	<0.1	0.1	<0.1	0.1
Acenaphthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1
Fluorene	mg/kg	0.4	<0.1	1.2	<0.1	<0.1
Phenanthrene	mg/kg	1.6	0.1	1.9	0.2	0.1
Anthracene	mg/kg	0.4	<0.1	0.2	<0.1	<0.1
Fluoranthene	mg/kg	4.7	0.2	0.3	0.6	0.4
Pyrene	mg/kg	5.2	0.2	0.4	0.7	1.0
Benzo(a)anthracene	mg/kg	3.7	<0.1	0.1	0.4	0.3
Chrysene	mg/kg	2.9	0.1	0.1	0.4	0.2
Benzo(b+k)fluoranthene	mg/kg	7.5	<0.2	<0.2	0.8	0.9
Benzo(a)pyrene	mg/kg	5.9	0.1	0.1	0.6	0.7
Indeno(1,2,3-c,d)pyrene	mg/kg	3.9	<0.1	<0.1	0.4	0.5
Dibenzo(a,h)anthracene	mg/kg	0.7	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	3.3	<0.1	<0.1	0.4	0.6
Surrogate p- Terphenyl-d ₁₄	%	107	108	98	106	105

Organochlorine Pesticides in soil						
Our Reference:	UNITS	43806-1	43806-7	43806-11	43806-14	43806-19
Your Reference	-----	BH601	BH602	BH603	BH604	BH605
Depth	-----	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.7-0.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
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 TCLMX	%	86	86	84	82	83

Organochlorine Pesticides in soil						
Our Reference:	UNITS	43806-20	43806-24	43806-30	43806-32	43806-35
Your Reference	-----	BH605	BH606	BH607	BH607	BH608
Depth	-----	1.3-1.5	0.3-0.5	0.1-0.2	1.7-1.9	0.3-0.5
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
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 TCLMX	%	79	83	82	81	84

Organochlorine Pesticides in soil					
Our Reference:	UNITS	43806-39	43806-42	43806-56	43806-57
Your Reference	-----	BH609	BH610	Dup7	Dup8
Depth	-----	0.2-0.5	0.2-0.4	-	-
Date Sampled		20/07/2010	20/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	86	85	77

Organophosphorus Pesticides						
Our Reference:	UNITS	43806-1	43806-7	43806-11	43806-14	43806-19
Your Reference	-----	BH601	BH602	BH603	BH604	BH605
Depth	-----	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.7-0.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Diazinon	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
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	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
Bromophos-ethyl	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
Surrogate TCLMX	%	86	86	84	82	83

Organophosphorus Pesticides						
Our Reference:	UNITS	43806-20	43806-24	43806-30	43806-32	43806-35
Your Reference	-----	BH605	BH606	BH607	BH607	BH608
Depth	-----	1.3-1.5	0.3-0.5	0.1-0.2	1.7-1.9	0.3-0.5
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Diazinon	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
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	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
Bromophos-ethyl	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
Surrogate TCLMX	%	79	83	82	81	84

Organophosphorus Pesticides					
Our Reference:	UNITS	43806-39	43806-42	43806-56	43806-57
Your Reference	-----	BH609	BH610	Dup7	Dup8
Depth	-----	0.2-0.5	0.2-0.4	-	-
Date Sampled		20/07/2010	20/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	86	85	77

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-1 BH601 0.3-0.5 21/07/2010 Soil	43806-7 BH602 0.3-0.5 21/07/2010 Soil	43806-11 BH603 0.3-0.5 21/07/2010 Soil	43806-14 BH604 0.3-0.5 21/07/2010 Soil	43806-19 BH605 0.7-0.95 20/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	86	86	84	82	83

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-20 BH605 1.3-1.5 20/07/2010 Soil	43806-24 BH606 0.3-0.5 20/07/2010 Soil	43806-30 BH607 0.1-0.2 20/07/2010 Soil	43806-32 BH607 1.7-1.9 20/07/2010 Soil	43806-35 BH608 0.3-0.5 20/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	79	83	82	81	84

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-39 BH609 0.2-0.5 20/07/2010 Soil	43806-42 BH610 0.2-0.4 20/07/2010 Soil	43806-56 Dup7 - 21/07/2010 Soil	43806-57 Dup8 - 21/07/2010 Soil
Date extracted	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	81	86	85	77

Acid Extractable metals in soil						
Our Reference:	UNITS	43806-1	43806-2	43806-4	43806-7	43806-9
Your Reference	-----	BH601	BH601	BH601	BH602	BH602
Depth	-----	0.3-0.5	0.6-0.95	3.2-3.45	0.3-0.5	1.7-1.92
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	5	8	<4	12	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	11	4	25	15
Copper	mg/kg	90	56	<1	34	33
Lead	mg/kg	150	640	3	31	97
Mercury	mg/kg	1.5	1.2	<0.1	0.1	0.1
Nickel	mg/kg	13	9	<1	17	7
Zinc	mg/kg	180	110	3	70	81

Acid Extractable metals in soil						
Our Reference:	UNITS	43806-10	43806-11	43806-12	43806-14	43806-16
Your Reference	-----	BH602	BH603	BH603	BH604	BH604
Depth	-----	2.8-3.0	0.3-0.5	0.9-1.2	0.3-0.5	1.7-1.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	<4	<4	<4	6	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	1.5	<0.5
Chromium	mg/kg	8	120	7	41	25
Copper	mg/kg	5	61	3	260	26
Lead	mg/kg	25	6	3	520	44
Mercury	mg/kg	<0.1	<0.1	<0.1	2.6	0.2
Nickel	mg/kg	2	97	6	24	4
Zinc	mg/kg	45	54	9	840	37

Acid Extractable metals in soil	UNITS	43806-17	43806-19	43806-20	43806-22	43806-24
Our Reference:	-----	BH604	BH605	BH605	BH605	BH606
Your Reference	-----	3.2-3.45	0.7-0.95	1.3-1.5	3-3.45	0.3-0.5
Depth		21/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	5	<4	12	<4	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	7	4	20	4	16
Copper	mg/kg	6	3	38	4	30
Lead	mg/kg	21	16	120	8	78
Mercury	mg/kg	<0.1	0.1	0.2	<0.1	0.2
Nickel	mg/kg	3	<1	18	1	5
Zinc	mg/kg	28	53	140	4	42

Acid Extractable metals in soil	UNITS	43806-26	43806-27	43806-28	43806-30	43806-31
Our Reference:	-----	BH606	BH606	BH606	BH607	BH607
Your Reference	-----	1.7-1.95	2.2-2.5	2.8-3.2	0.1-0.2	0.5-0.7
Depth		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	<4	16	<4	<4	29
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	8	14	4	30	12
Copper	mg/kg	3	61	1	71	16
Lead	mg/kg	15	58	4	46	40
Mercury	mg/kg	<0.1	0.3	<0.1	<0.1	0.2
Nickel	mg/kg	4	4	<1	30	2
Zinc	mg/kg	28	220	4	41	29

Acid Extractable metals in soil	UNITS	43806-32	43806-35	43806-37	43806-39	43806-42
Our Reference:	-----	BH607	BH608	BH608	BH609	BH610
Your Reference	-----	1.7-1.9	0.3-0.5	1.3-1.5	0.2-0.5	0.2-0.4
Depth		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	16	<4	<4	30	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	74	8	2	8	11
Copper	mg/kg	1	23	1	35	82
Lead	mg/kg	11	27	5	33	58
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	<1	4	1	3	32
Zinc	mg/kg	5	58	620	64	63

Acid Extractable metals in soil	UNITS	43806-43	43806-46	43806-47	43806-56	43806-57
Our Reference:	-----	BH610	Dup3	Dup4	Dup7	Dup8
Your Reference	-----	0.7-0.95	-	-	-	-
Depth		20/07/2010	20/07/2010	20/07/2010	21/07/2010	21/07/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Date analysed	-	23/07/2010	23/07/2010	23/07/2010	23/07/2010	23/07/2010
Arsenic	mg/kg	<4	39	<4	6	<4
Cadmium	mg/kg	<0.5	0.6	<0.5	<0.5	0.9
Chromium	mg/kg	5	9	6	24	64
Copper	mg/kg	29	50	5	24	170
Lead	mg/kg	88	53	14	41	400
Mercury	mg/kg	0.2	<0.1	<0.1	0.1	2.1
Nickel	mg/kg	8	4	2	18	48
Zinc	mg/kg	250	83	28	48	560

Miscellaneous Inorg - soil						
Our Reference:	UNITS	43806-2	43806-16	43806-25	43806-30	43806-36
Your Reference	-----	BH601	BH604	BH606	BH607	BH608
Depth	-----	0.6-0.95	1.7-1.95	0.7-0.95	0.1-0.2	0.7-0.95
Date Sampled		21/07/2010	21/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Date analysed	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Total Cyanide	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

Moisture						
Our Reference:	UNITS	43806-1	43806-2	43806-4	43806-7	43806-9
Your Reference	-----	BH601	BH601	BH601	BH602	BH602
Depth	-----	0.3-0.5	0.6-0.95	3.2-3.45	0.3-0.5	1.7-1.92
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	12	12	12	15	11

Moisture						
Our Reference:	UNITS	43806-10	43806-11	43806-12	43806-14	43806-16
Your Reference	-----	BH602	BH603	BH603	BH604	BH604
Depth	-----	2.8-3.0	0.3-0.5	0.9-1.2	0.3-0.5	1.7-1.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	11	7.6	12	13	16

Moisture						
Our Reference:	UNITS	43806-17	43806-19	43806-20	43806-22	43806-24
Your Reference	-----	BH604	BH605	BH605	BH605	BH606
Depth	-----	3.2-3.45	0.7-0.95	1.3-1.5	3-3.45	0.3-0.5
Date Sampled		21/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	27	8.1	16	22	15

Moisture						
Our Reference:	UNITS	43806-25	43806-26	43806-27	43806-28	43806-30
Your Reference	-----	BH606	BH606	BH606	BH606	BH607
Depth	-----	0.7-0.95	1.7-1.95	2.2-2.5	2.8-3.2	0.1-0.2
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	11	9.3	26	12	5.8

Moisture						
Our Reference:	UNITS	43806-31	43806-32	43806-35	43806-36	43806-37
Your Reference	-----	BH607	BH607	BH608	BH608	BH608
Depth	-----	0.5-0.7	1.7-1.9	0.3-0.5	0.7-0.95	1.3-1.5
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	10	15	7.8	13	16

Moisture						
Our Reference:	UNITS	43806-39	43806-42	43806-43	43806-46	43806-47
Your Reference	-----	BH609	BH610	BH610	Dup3	Dup4
Depth	-----	0.2-0.5	0.2-0.4	0.7-0.95	-	-
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	8.6	7.2	15	7.6	11

Moisture					
Our Reference:	UNITS	43806-50	43806-53	43806-56	43806-57
Your Reference	-----	Trip Blank A	Trip Blank B	Dup7	Dup8
Depth	-----	-	-	-	-
Date Sampled		20/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Moisture	%	5.7	5.0	13	11

Asbestos ID - soils						
Our Reference:	UNITS	43806-1	43806-2	43806-4	43806-7	43806-9
Your Reference	-----	BH601	BH601	BH601	BH602	BH602
Depth	-----	0.3-0.5	0.6-0.95	3.2-3.45	0.3-0.5	1.7-1.92
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	43806-10	43806-11	43806-12	43806-14	43806-16
Your Reference	-----	BH602	BH603	BH603	BH604	BH604
Depth	-----	2.8-3.0	0.3-0.5	0.9-1.2	0.3-0.5	1.7-1.95
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	43806-19	43806-20	43806-24	43806-26	43806-27
Your Reference	-----	BH605	BH605	BH606	BH606	BH606
Depth	-----	0.7-0.95	1.3-1.5	0.3-0.5	1.7-1.95	2.2-2.5
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	43806-30	43806-31	43806-32	43806-35	43806-37
Your Reference	-----	BH607	BH607	BH607	BH608	BH608
Depth	-----	0.1-0.2	0.5-0.7	1.7-1.9	0.3-0.5	1.3-1.5
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils				
Our Reference:	UNITS	43806-39	43806-42	43806-43
Your Reference	-----	BH609	BH610	BH610
Depth	-----	0.2-0.5	0.2-0.4	0.7-0.95
Date Sampled		20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil
Date analysed	-	23/7/2010	23/7/2010	23/7/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

vTPH & BTEX in Water			
Our Reference:	UNITS	43806-49	43806-52
Your Reference	-----	Rinsate A	Rinsate B
Depth	-----	-	-
Date Sampled		20/07/2010	21/07/2010
Type of sample		Water	Soil
Date extracted	-	24/7/2010	24/7/2010
Date analysed	-	24/7/2010	24/7/2010
TPH C ₆ - C ₉	µg/L	<10	<10
Benzene	µg/L	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0
Ethylbenzene	µg/L	<1.0	<1.0
m+p-xylene	µg/L	<2.0	<2.0
o-xylene	µg/L	<1.0	<1.0
Surrogate Dibromofluoromethane	%	107	106
Surrogate toluene-d8	%	94	94
Surrogate 4-BFB	%	97	94

sTPH in Water (C10-C36)			
Our Reference:	UNITS	43806-49	43806-52
Your Reference	-----	Rinsate A	Rinsate B
Depth	-----	-	-
Date Sampled		20/07/2010	21/07/2010
Type of sample		Water	Soil
Date extracted	-	23/7/2010	23/7/2010
Date analysed	-	23/7/2010	23/7/2010
TPH C ₁₀ - C ₁₄	µg/L	<50	<50
TPH C ₁₅ - C ₂₈	µg/L	<100	<100
TPH C ₂₉ - C ₃₆	µg/L	<100	<100
Surrogate o-Terphenyl	%	110	121

Method ID	Methodology Summary
GC.16	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.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC.8	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC-6	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.13	Cyanide - total determined colourimetrically after distillation. Free cyanide determined colourimetrically after filtration. Based on APHA 20th ED, 4500-CN_C,E.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
AS4964-2004	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	43806-1	23/7/2010 23/7/2010	LCS-4	23/7/2010
Date analysed	-			24/7/2010	43806-1	24/7/2010 24/7/2010	LCS-4	24/7/2010
vTPH C ₆ - C ₉	mg/kg	25	GC.16	<25	43806-1	<25 <25	LCS-4	101%
Benzene	mg/kg	0.5	GC.16	<0.5	43806-1	<0.5 <0.5	LCS-4	110%
Toluene	mg/kg	0.5	GC.16	<0.5	43806-1	<0.5 <0.5	LCS-4	100%
Ethylbenzene	mg/kg	1	GC.16	<1.0	43806-1	<1.0 <1.0	LCS-4	95%
m+p-xylene	mg/kg	2	GC.16	<2.0	43806-1	<2.0 <2.0	LCS-4	100%
o-Xylene	mg/kg	1	GC.16	<1.0	43806-1	<1.0 <1.0	LCS-4	100%
Surrogate aaa-Trifluorotoluene	%		GC.16	121	43806-1	120 126 RPD: 5	LCS-4	114%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C ₁₀ -C ₃₆)						Base II Duplicate II %RPD		
Date extracted	-			23/07/2010	43806-1	23/07/2010 23/07/2010	LCS-4	23/07/2010
Date analysed	-			23/07/2010	43806-1	23/07/2010 23/07/2010	LCS-4	23/07/2010
TPH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	43806-1	<50 <50	LCS-4	71%
TPH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	43806-1	330 200 RPD: 49	LCS-4	77%
TPH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	43806-1	380 240 RPD: 45	LCS-4	81%
Surrogate o-Terphenyl	%		GC.3	105	43806-1	# #	LCS-4	95%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/07/2010	43806-1	23/07/2010 23/07/2010	LCS-4	23/07/2010
Date analysed	-			24/07/2010	43806-1	24/07/2010 24/07/2010	LCS-4	24/07/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.3 0.2 RPD: 40	LCS-4	103%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.3 0.2 RPD: 40	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.1 0.1 RPD: 0	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.2 0.2 RPD: 0	LCS-4	105%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	2.6 1.6 RPD: 48	LCS-4	106%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.8 0.5 RPD: 46	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	7.2 3.7 RPD: 64	LCS-4	100%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	7.0 3.6 RPD: 64	LCS-4	105%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	4.4 2.2 RPD: 67	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	3.2 1.8 RPD: 56	LCS-4	111%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	43806-1	7.1 4.2 RPD: 51	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	43806-1	6.1 3.5 RPD: 54	LCS-4	112%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	3.2 1.9 RPD: 51	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	0.6 0.4 RPD: 40	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	43806-1	3.2 2.0 RPD: 46	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	92	43806-1	100 103 RPD: 3	LCS-4	103%

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	-			23/7/2010	43806-1	23/7/2010 23/7/2010	LCS-4	23/7/2010
Date analysed	-			24/7/2010	43806-1	24/7/2010 24/7/2010	LCS-4	24/7/2010
HCB	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	98%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	104%
Heptachlor	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	75%
delta-BHC	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	99%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	109%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	119%
Dieldrin	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	102%
Endrin	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	94%
pp-DDD	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	111%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	LCS-4	96%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	83	43806-1	86 85 RPD: 1	LCS-4	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	43806-1	23/7/2010 23/7/2010	LCS-4	23/7/2010
Date analysed	-			24/7/2010	43806-1	24/7/2010 24/7/2010	LCS-4	24/7/2010
Diazinon	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	LCS-4	111%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	LCS-4	100%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	43806-1	<0.1 <0.1	LCS-4	106%
Surrogate TCLMX	%		GC.8	83	43806-1	86 85 RPD: 1	LCS-4	85%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	43806-1	23/7/2010 23/7/2010	LCS-4	23/7/2010
Date analysed	-			24/7/2010	43806-1	24/7/2010 24/7/2010	LCS-4	24/7/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	LCS-4	130%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	43806-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-6	83	43806-1	86 85 RPD: 1	LCS-4	106%

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	-			23/07/2010	43806-1	23/07/2010 23/07/2010	LCS-3	23/07/2010
Date analysed	-			23/07/2010	43806-1	23/07/2010 23/07/2010	LCS-3	23/07/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	43806-1	5 5 RPD: 0	LCS-3	97%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	43806-1	<0.5 <0.5	LCS-3	98%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	43806-1	14 13 RPD: 7	LCS-3	100%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	43806-1	90 71 RPD: 24	LCS-3	100%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Lead	mg/kg	1	Metals.20 ICP-AES	<1	43806-1	150 130 RPD: 14	LCS-3	97%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	43806-1	1.5 1.2 RPD: 22	LCS-3	107%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	43806-1	13 11 RPD: 17	LCS-3	101%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	43806-1	180 170 RPD: 6	LCS-3	100%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorg - soil						Base II Duplicate II %RPD		
Date prepared	-			26/07/2010	43806-2	26/7/2010 26/7/2010	LCS-1	26/07/2010
Date analysed	-			26/07/2010	43806-2	26/7/2010 26/7/2010	LCS-1	26/07/2010
Total Cyanide	mg/kg	0.5	LAB.13	<0.5	43806-2	<0.5 <0.5	LCS-1	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			23/7/2010
Date analysed	-			23/7/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
TPH C6 - C9	µg/L	10	GC.16	<10	[NT]	[NT]	LCS-W1	96%
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	97%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	100%
Ethylbenzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	102%
m+p-xylene	µg/L	2	GC.16	<2.0	[NT]	[NT]	LCS-W1	90%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	91%
Surrogate	%		GC.16	92	[NT]	[NT]	LCS-W1	108%
Dibromofluoromethane								
Surrogate toluene-d8	%		GC.16	96	[NT]	[NT]	LCS-W1	99%
Surrogate 4-BFB	%		GC.16	107	[NT]	[NT]	LCS-W1	103%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			23/7/2010	[NT]	[NT]	LCS-W2	23/7/2010
Date analysed	-			23/7/2010	[NT]	[NT]	LCS-W2	23/7/2010
TPH C10 - C14	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W2	92%
TPH C15 - C28	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W2	116%
TPH C29 - C36	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W2	103%
Surrogate o-Terphenyl	%		GC.3	100	[NT]	[NT]	LCS-W2	126%
QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD			Spike Sm#	Spike % Recovery	
Date extracted	-	43806-19	23/7/2010 23/7/2010			LCS-5	23/7/2010	
Date analysed	-	43806-19	24/7/2010 24/7/2010			LCS-5	24/7/2010	
vTPH C6 - C9	mg/kg	43806-19	<25 <25			LCS-5	108%	
Benzene	mg/kg	43806-19	<0.5 <0.5			LCS-5	115%	
Toluene	mg/kg	43806-19	<0.5 <0.5			LCS-5	106%	
Ethylbenzene	mg/kg	43806-19	<1.0 <1.0			LCS-5	102%	
m+p-xylene	mg/kg	43806-19	<2.0 <2.0			LCS-5	108%	
o-Xylene	mg/kg	43806-19	<1.0 <1.0			LCS-5	108%	
Surrogate aaa-Trifluorotoluene	%	43806-19	109 111 RPD: 2			LCS-5	116%	
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD			Spike Sm#	Spike % Recovery	
Date extracted	-	43806-19	23/07/2010 23/07/2010			LCS-5	23/07/2010	
Date analysed	-	43806-19	23/07/2010 23/07/2010			LCS-5	23/07/2010	
TPH C10 - C14	mg/kg	43806-19	<50 <50			LCS-5	84%	
TPH C15 - C28	mg/kg	43806-19	<100 <100			LCS-5	91%	
TPH C29 - C36	mg/kg	43806-19	<100 <100			LCS-5	93%	
Surrogate o-Terphenyl	%	43806-19	119 116 RPD: 3			LCS-5	119%	
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD			Spike Sm#	Spike % Recovery	
Date extracted	-	43806-19	23/07/2010 23/07/2010			LCS-5	23/07/2010	
Date analysed	-	43806-19	24/07/2010 24/07/2010			LCS-5	24/07/2010	
Naphthalene	mg/kg	43806-19	<0.1 <0.1			LCS-5	99%	
Acenaphthylene	mg/kg	43806-19	<0.1 <0.1			[NR]	[NR]	
Acenaphthene	mg/kg	43806-19	<0.1 <0.1			[NR]	[NR]	
Fluorene	mg/kg	43806-19	<0.1 <0.1			LCS-5	107%	
Phenanthrene	mg/kg	43806-19	<0.1 <0.1			LCS-5	94%	
Anthracene	mg/kg	43806-19	<0.1 <0.1			[NR]	[NR]	
Fluoranthene	mg/kg	43806-19	<0.1 <0.1			LCS-5	94%	
Pyrene	mg/kg	43806-19	<0.1 <0.1			LCS-5	98%	

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(a)anthracene	mg/kg	43806-19	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	43806-19	<0.1 <0.1	LCS-5	99%
Benzo(b+k)fluoranthene	mg/kg	43806-19	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	43806-19	<0.05 <0.05	LCS-5	130%
Indeno(1,2,3-c,d)pyrene	mg/kg	43806-19	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	43806-19	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	43806-19	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	43806-19	105 105 RPD: 0	LCS-5	98%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/7/2010 23/7/2010	43806-7	23/7/2010
Date analysed	-	43806-56	24/7/2010 24/7/2010	43806-7	24/7/2010
HCB	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	43806-56	<0.1 <0.1	43806-7	97%
gamma-BHC	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	43806-56	<0.1 <0.1	43806-7	107%
Heptachlor	mg/kg	43806-56	<0.1 <0.1	43806-7	96%
delta-BHC	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	43806-56	<0.1 <0.1	43806-7	94%
Heptachlor Epoxide	mg/kg	43806-56	<0.1 <0.1	43806-7	110%
gamma-Chlordane	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	43806-56	<0.1 <0.1	43806-7	120%
Dieldrin	mg/kg	43806-56	<0.1 <0.1	43806-7	103%
Endrin	mg/kg	43806-56	<0.1 <0.1	43806-7	99%
pp-DDD	mg/kg	43806-56	<0.1 <0.1	43806-7	117%
Endosulfan II	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	43806-56	<0.1 <0.1	43806-7	100%
Methoxychlor	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	43806-56	85 80 RPD: 6	43806-7	82%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/7/2010 23/7/2010	43806-7	23/7/2010
Date analysed	-	43806-56	24/7/2010 24/7/2010	43806-7	24/7/2010
Diazinon	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	43806-56	<0.1 <0.1	43806-7	113%
Fenitrothion	mg/kg	43806-56	<0.1 <0.1	43806-7	103%
Bromophos-ethyl	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	43806-56	<0.1 <0.1	43806-7	110%
Surrogate TCLMX	%	43806-56	85 80 RPD: 6	43806-7	82%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/7/2010 23/7/2010	43806-7	23/7/2010
Date analysed	-	43806-56	24/7/2010 24/7/2010	43806-7	24/7/2010
Arochlor 1016	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	43806-56	<0.1 <0.1	43806-7	130%
Arochlor 1260	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	43806-56	85 80 RPD: 6	43806-7	106%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	43806-19	23/07/2010 23/07/2010	LCS-4	23/07/2010
Date analysed	-	43806-19	23/07/2010 23/07/2010	LCS-4	23/07/2010
Arsenic	mg/kg	43806-19	<4 <4	LCS-4	94%
Cadmium	mg/kg	43806-19	<0.5 <0.5	LCS-4	96%
Chromium	mg/kg	43806-19	4 5 RPD: 22	LCS-4	99%
Copper	mg/kg	43806-19	3 3 RPD: 0	LCS-4	97%
Lead	mg/kg	43806-19	16 20 RPD: 22	LCS-4	95%
Mercury	mg/kg	43806-19	0.1 <0.1	LCS-4	106%
Nickel	mg/kg	43806-19	<1 <1	LCS-4	98%
Zinc	mg/kg	43806-19	53 74 RPD: 33	LCS-4	98%

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QUALITY CONTROL Miscellaneous Inorg - soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	43806-16	26/07/2010
Date analysed	-	[NT]	[NT]	43806-16	26/07/2010
Total Cyanide	mg/kg	[NT]	[NT]	43806-16	#
QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-35	23/7/2010 23/7/2010	43806-7	23/7/2010
Date analysed	-	43806-35	24/7/2010 24/7/2010	43806-7	24/7/2010
vTPH C ₆ - C ₉	mg/kg	43806-35	<25 <25	43806-7	102%
Benzene	mg/kg	43806-35	<0.5 <0.5	43806-7	108%
Toluene	mg/kg	43806-35	<0.5 <0.5	43806-7	101%
Ethylbenzene	mg/kg	43806-35	<1.0 <1.0	43806-7	97%
m+p-xylene	mg/kg	43806-35	<2.0 <2.0	43806-7	102%
o-Xylene	mg/kg	43806-35	<1.0 <1.0	43806-7	104%
Surrogate aaa-Trifluorotoluene	%	43806-35	109 120 RPD: 10	43806-7	99%
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-35	23/07/2010 23/07/2010	43806-7	23/07/2010
Date analysed	-	43806-35	23/07/2010 23/07/2010	43806-7	23/07/2010
TPH C ₁₀ - C ₁₄	mg/kg	43806-35	<50 <50	43806-7	71%
TPH C ₁₅ - C ₂₈	mg/kg	43806-35	290 440 RPD: 41	43806-7	102%
TPH C ₂₉ - C ₃₆	mg/kg	43806-35	790 1100 RPD: 33	43806-7	109%
Surrogate o-Terphenyl	%	43806-35	138 #	43806-7	103%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-35	23/07/2010 23/07/2010	43806-7	23/07/2010
Date analysed	-	43806-35	24/07/2010 24/07/2010	43806-7	24/07/2010
Naphthalene	mg/kg	43806-35	<0.1 <0.1	43806-7	99%
Acenaphthylene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	43806-35	<0.1 <0.1	43806-7	107%
Phenanthrene	mg/kg	43806-35	<0.1 <0.1	43806-7	94%
Anthracene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	43806-35	<0.1 <0.1	43806-7	94%
Pyrene	mg/kg	43806-35	<0.1 <0.1	43806-7	98%
Benzo(a)anthracene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	43806-35	<0.1 <0.1	43806-7	99%
Benzo(b+k)fluoranthene	mg/kg	43806-35	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	43806-35	0.07 0.06 RPD: 15	43806-7	130%
Indeno(1,2,3-c,d)pyrene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]

Client Reference: E24125K, Pyrmont

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(g,h,i)perylene	mg/kg	43806-35	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	43806-35	105 111 RPD: 6	43806-7	98%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	43806-35	23/07/2010 23/07/2010	43806-7	23/07/2010
Date analysed	-	43806-35	23/07/2010 23/07/2010	43806-7	23/07/2010
Arsenic	mg/kg	43806-35	<4 <4	43806-7	81%
Cadmium	mg/kg	43806-35	<0.5 <0.5	43806-7	81%
Chromium	mg/kg	43806-35	8 8 RPD: 0	43806-7	81%
Copper	mg/kg	43806-35	23 18 RPD: 24	43806-7	81%
Lead	mg/kg	43806-35	27 25 RPD: 8	43806-7	94%
Mercury	mg/kg	43806-35	<0.1 <0.1	43806-7	93%
Nickel	mg/kg	43806-35	4 3 RPD: 29	43806-7	83%
Zinc	mg/kg	43806-35	58 53 RPD: 9	43806-7	101%
QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/7/2010 23/7/2010	43806-39	23/7/2010
Date analysed	-	43806-56	24/7/2010 24/7/2010	43806-39	24/7/2010
vTPH C6 - C9	mg/kg	43806-56	<25 <25	43806-39	105%
Benzene	mg/kg	43806-56	<0.5 <0.5	43806-39	114%
Toluene	mg/kg	43806-56	<0.5 <0.5	43806-39	103%
Ethylbenzene	mg/kg	43806-56	<1.0 <1.0	43806-39	100%
m+p-xylene	mg/kg	43806-56	<2.0 <2.0	43806-39	105%
o-Xylene	mg/kg	43806-56	<1.0 <1.0	43806-39	107%
Surrogate aaa-Trifluorotoluene	%	43806-56	117 109 RPD: 7	43806-39	115%
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/07/2010 23/07/2010	43806-39	23/07/2010
Date analysed	-	43806-56	23/07/2010 23/07/2010	43806-39	23/07/2010
TPH C10 - C14	mg/kg	43806-56	<50 <50	43806-39	135%
TPH C15 - C28	mg/kg	43806-56	<100 <100	43806-39	107%
TPH C29 - C36	mg/kg	43806-56	<100 <100	43806-39	108%
Surrogate o-Terphenyl	%	43806-56	108 108 RPD: 0	43806-39	130%

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	43806-56	23/07/20100 23/07/20100	43806-39	23/07/2010
Date analysed	-	43806-56	24/07/20100 24/07/20100	43806-39	24/07/2010
Naphthalene	mg/kg	43806-56	<0.1 <0.1	43806-39	90%
Acenaphthylene	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	43806-56	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	43806-56	<0.1 <0.1	43806-39	104%
Phenanthrene	mg/kg	43806-56	0.2 0.4 RPD: 67	43806-39	102%
Anthracene	mg/kg	43806-56	<0.1 0.1	[NR]	[NR]
Fluoranthene	mg/kg	43806-56	0.6 3.9 RPD: 147	43806-39	101%
Pyrene	mg/kg	43806-56	0.7 3.9 RPD: 139	43806-39	104%
Benzo(a)anthracene	mg/kg	43806-56	0.4 3.6 RPD: 160	[NR]	[NR]
Chrysene	mg/kg	43806-56	0.4 2.5 RPD: 145	43806-39	103%
Benzo(b+k)fluoranthene	mg/kg	43806-56	0.8 5.9 RPD: 152	[NR]	[NR]
Benzo(a)pyrene	mg/kg	43806-56	0.6 3.9 RPD: 147	43806-39	128%
Indeno(1,2,3-c,d)pyrene	mg/kg	43806-56	0.4 2.4 RPD: 143	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	43806-56	<0.1 0.4	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	43806-56	0.4 2.0 RPD: 133	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	43806-56	106 98 RPD: 8	43806-39	97%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	43806-56	23/07/2010 23/07/2010	43806-39	23/07/2010
Date analysed	-	43806-56	23/07/2010 23/07/2010	43806-39	23/07/2010
Arsenic	mg/kg	43806-56	6 5 RPD: 18	43806-39	99%
Cadmium	mg/kg	43806-56	<0.5 <0.5	43806-39	88%
Chromium	mg/kg	43806-56	24 21 RPD: 13	43806-39	95%
Copper	mg/kg	43806-56	24 26 RPD: 8	43806-39	111%
Lead	mg/kg	43806-56	41 49 RPD: 18	43806-39	97%
Mercury	mg/kg	43806-56	0.1 0.1 RPD: 0	43806-39	107%
Nickel	mg/kg	43806-56	18 16 RPD: 12	43806-39	90%
Zinc	mg/kg	43806-56	48 58 RPD: 19	43806-39	81%

Report Comments:

PAH's in soil: The RPD for duplicate results is accepted due to the non homogenous nature of the sample/s.

Total Petroleum Hydrocarbons in soil (semivol): # Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference. The RPD for duplicate results is accepted due to the non homogenous nature of the sample/s.

Cyanide: # Percent recovery not available due to sample matrix.

Asbestos was analysed by Approved Identifier: Paul Ching

Asbestos was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

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 sample batch were within laboratory acceptance criteria.

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

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for



Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Brendan Page

Sample log in details:

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

E24125K, Pyrmont
43806
22/07/10
29/07/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	55 Soils, 2 Waters
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice Pack

Comments:

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

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

SAMPLE AND CHAIN OF CUSTODY FORM

TO: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Phone: (02) 99106200 Fax: (02) 99106201 Attention: Aileen	EIS Job Number: E24125K Date Results Required: Standard	FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page
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Sheet 1 / 3

Project: Proposed Redevelopment Location: Pyrmont Sampler: BP	Tests Required	Sample Preservation: In esky on ice
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Date Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metals (8)	TPH/BTEX	PAH	OC/OP/PCB	Asbestos	Cyanide (total)	BTEX	VOC	sVOC	sPOCAS		
20-7-10	1	BH601	0.3/0.5	Glass jar + Asb Bag	0	Fills	X	X	X	X	X							
20-7-10	2		0.6/0.95	Glass jar + Asb Bag		F	X	X	X		X	X						
20-7-10	3		1.7/1.55	Glass jar + Asb Bag		F												
20-7-10	4		3.2/3.45	Glass jar + Asb Bag		F	X	X	X		X							
20-7-10	5		4.7/4.95	Glass jar + Asb Bag		F												
20-7-10	6	↓	5.8/6.0	Glass jar + Asb Bag		Not used												
20-7-10	7	BH602	0.3/0.5	Glass jar + Asb Bag		F	X	X	X	X	X							
20-7-10	8		0.7/0.95	Glass jar + Asb Bag		F												
20-7-10	9		1.7/1.92	Glass jar + Asb Bag		F	X	X	X		X							
20-7-10	10	↓	2.8/3.0	Glass jar + Asb Bag		F	X	X	X		X							
20-7-10	11	BH603	0.3/0.5	Glass jar + Asb Bag		F	X	X	X	X	X							
20-7-10	12		0.9/1.2	Glass jar + Asb Bag		F	X	X	X		X							
20-7-10	13	↓	1.8/1.95	Glass jar + Asb Bag	↓	F												
20-7-10	14	BH604	0.3/0.5	Glass jar + Asb Bag	23	F	X	X	X	X	X							
20-7-10	15		1.3/1.5	Glass jar + Asb Bag	12	F												
20-7-10	16		1.7/1.95	Glass jar + Asb Bag	48.3	F	X	X	X		X	X						
20-7-10	17	↓	3.2/3.45	Glass jar + Asb Bag	41.1	N	X	X	X									
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														

continue next page

Remarks (comments/detection limits required):			
Relinquished By: BP	Date: 22/7/10 Time: 9am	Received By: JHie	Relinquished By:
Envirolab Services 12 Ashley Street Chatswood NSW 2067 Ph: 9910 6200		Received By: Date: 22/7/10 Time: 1130 Temp: Cool/ambient Cooling: Ice/No pack Security: Intact/Broken/None	



Job No: 43806
 Date received: 22/7/10
 Time received: 1130
 Received by: JHie
 Temp: Cool/ambient
 Cooling: Ice/No pack
 Security: Intact/Broken/None

SAMPLE AND CHAIN OF CUSTODY FORM

TO: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Phone: (02) 99106200 Fax: (02) 99106201 Attention: Aileen							EIS Job Number: E24125K Date Results Required: Standard							FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page										
Project: Proposed Redevelopment Location: Pyrmont Sampler: BP							Tests Required							Sample Preservation: In esky on ice										
Date Sampled	Lab Ref:	Borehole/Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metals (8)	TPH/BTEX	PAH	OC/OP/PCB	Asbestos	Cyanide (40 µg/l)	BTEX	VOC	sVOC	sPOCAS								
20-7-10	18	BH605	0.3/0.5	Glass jar + Asb Bag	0	F																		
20-7-10	19		0.7/0.95	Glass jar + Asb Bag	0	F	X	X	X	X	X													
20-7-10	20		1.3/1.5	Glass jar + Asb Bag	9.3	F	X	X	X	X	X													
20-7-10	21		1.7/1.95	Glass jar + Asb Bag	9	F																		
20-7-10	22		3/3.45	Glass jar + Asb Bag	0.6	N	X	X	X															
20-7-10	23	↓	4.2/4.5	Glass jar + Asb Bag	0.6	N																		
20-7-10	24	BH606	0.3/0.5	Glass jar + Asb Bag	0	F	X	X	X	X	X													
20-7-10	25		0.7/0.95	Glass jar + Asb Bag	0	F						X												
20-7-10	26		1.7/1.95	Glass jar + Asb Bag	44.8	F	X	X	X		X													
20-7-10	27		2.2/2.5	Glass jar + Asb Bag	50.6	F	X	X	X		X													
20-7-10	28		2.8/3.2	Glass jar + Asb Bag	44	Natural SS	X	X	X															
20-7-10	29	↓	3.8/4.0	Glass jar + Asb Bag	27.1	SS																		
20-7-10	30	BH607	0.1/0.2	Glass jar + Asb Bag	0	F	X	X	X	X	X	X												
20-7-10	31		0.5/0.7	Glass jar + Asb Bag	0	F	X	X	X		X													
20-7-10	32		1.7/1.9	Glass jar + Asb Bag	14	F	X	X	X	X	X													
20-7-10	33		2.8/3.0	Glass jar + Asb Bag	2.8	N																		
20-7-10	34		3.0/3.45	Glass jar + Asb Bag	1	N																		
20-7-10		↓		Glass jar + Asb Bag																				
20-7-10	35	BH608	0.3/0.5	Glass jar + Asb Bag	0	F	X	X	X	X	X													
20-7-10	36		0.7/0.95	Glass jar + Asb Bag	0	F						X												
20-7-10	37		1.3/1.5	Glass jar + Asb Bag	6.6	F	X	X	X		X													
20-7-10	38	↓	2.8/3.0	Glass jar + Asb Bag	4	N																		
20-7-10	39	BH609	0.2/0.5	Glass jar + Asb Bag	2.2	F	X	X	X	X	X													
20-7-10	40		0.7/1.0	Glass jar + Asb Bag	1	F																		
20-7-10	41	↓	1.3/1.5	Glass jar + Asb Bag	0	N																		
Remarks (comments/detection limits required):																								
Relinquished By: BP					Date: 22/7/10 Time: 9am					Received By: JHA					Relinquished By:					Date:				

SAMPLE AND CHAIN OF CUSTODY FORM

TO: Envirolab Services Pty Ltd 12 Ashley Street Chatswood NSW 2067 Phone: (02) 99106200 Fax: (02) 99106201 Attention: Aileen	EIS Job Number: E24125K Date Results Required: Standard	FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact: Brendan Page
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Sheet 3 13

Project: Proposed Redevelopment Location: Pyrmont Sampler: BP	Tests Required	Sample Preservation: In esky on ice
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Date Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Heavy Metals (B)	TPH/BTEX	PAH	OC/OP/PCB	Asbestos	Cyanide (total)	BTEX	VOC	sVOC	sPOCAS		
20-7-10	42	BH610	0.2/0.4	Glass jar + Asb Bag	0	F	X	X	X	X	X							
20-7-10	43		0.2/0.45	Glass jar + Asb Bag	0	F	X	X	X		X							
20-7-10	44		1.2/1.45	Glass jar + Asb Bag	0	F												
20-7-10	45	↓	3/3.45	Glass jar + Asb Bag	0	N												
20-7-10		Dup		Glass jar + Asb Bag		-	X	X	X	X								
20-7-10		Dup		Glass jar + Asb Bag		-	X	X	X									
20-7-10	46	Dup 3		Glass jar + Asb Bag		-	X	X	X									
20-7-10	47	Dup 4		Glass jar + Asb Bag		-	X	X	X									
20-7-10	48	Dup 5		Glass jar + Asb Bag		-												
20-7-10	49	Rinset A		Vial + 1L Amber		Water		X										
20-7-10	50	Trip Blank A		Glass jar		Sand							X					
20-7-10	51	Trip Spike A		Glass jar		Sand							X					
20-7-10	52	Rinset B		Vial + 1L Amber		Water		X										
20-7-10	53	Trip Blank B		Glass jar		Sand							X					
20-7-10	54	Trip Spike B		Glass jar		Sand							X					
20-7-10	55	Dup 6		Glass jar + Asb Bag		-												
20-7-10	56	Dup 7		Glass jar + Asb Bag		-	X	X	X	X								
20-7-10	57	Dup 8		Glass jar + Asb Bag		-	X	X	X	X								
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														
20-7-10				Glass jar + Asb Bag														

Remarks (comments/detection limits required): Please send to SCIS as inter-lab dup.

Relinquished By: BP	Date: 22/2/10 Time: 9am	Received By: JHS	Relinquished By:	Date:	Received By:
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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 43806-A

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:	<u>E24125K, Pyrmont</u>
No. of samples:	55 Soils, 2 Waters
Date samples received:	22/07/10
Date completed instructions received:	22/07/10

Analysis Details:

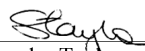
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

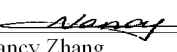
Date results requested by:	9/08/10
Date of Preliminary Report:	Not Issued
Issue Date:	9/08/10

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Tests not covered by NATA are denoted with *.

Results Approved By:


Sandra Taylor
Senior Organic Chemist


Jacinta Hurst
Laboratory Manager


Nancy Zhang
Chemist

Envirolab Reference: 43806-A
Revision No: R 00



PAHs in Soil		
Our Reference:	UNITS	43806-A-44
Your Reference	-----	BH610
Depth	-----	1.7-1.95
Date Sampled		20/07/2010
Type of sample		Soil
Date extracted	-	03/08/2010
Date analysed	-	04/08/2010
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+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
Surrogate p-Terphenyl-d14	%	122

Moisture Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43806-A-44 BH610 1.7-1.95 20/07/2010 Soil
Date prepared	-	3/8/2010
Date analysed	-	3/8/2010
Moisture	%	20

Metals in TCLP USEPA1311						
Our Reference:	UNITS	43806-A-1	43806-A-2	43806-A-9	43806-A-11	43806-A-14
Your Reference	-----	BH601	BH601	BH602	BH603	BH604
Depth	-----	0.3-0.5	0.6-0.95	1.7-1.92	0.3-0.5	0.3-0.5
Date Sampled		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2010	04/08/2010	04/08/2010	04/08/2010	04/08/2010
Date analysed	-	09/08/2010	09/08/2010	[NA]	09/08/2010	09/08/2010
pH of soil for fluid# determ.	pH units	9.70	9.60	9.70	10.00	9.90
pH of soil for fluid # determ. (acid)	pH units	1.40	1.30	1.40	1.50	1.40
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.00	5.00	6.00	5.20	6.00
Chromium in TCLP	mg/L	[NA]	[NA]	[NA]	<0.01	[NA]
Lead in TCLP	mg/L	0.4	0.3	[NA]	[NA]	1.6
Nickel in TCLP	mg/L	[NA]	[NA]	[NA]	0.04	[NA]

Metals in TCLP USEPA1311						
Our Reference:	UNITS	43806-A-20	43806-A-27	43806-A-31	43806-A-42	43806-A-43
Your Reference	-----	BH605	BH606	BH607	BH610	BH610
Depth	-----	1.3-1.5	2.2-2.5	0.5-0.7	0.2-0.4	0.7-0.95
Date Sampled		20/07/2010	20/07/2010	20/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2010	04/08/2010	04/08/2010	04/08/2010	04/08/2010
Date analysed	-	09/08/2010	[NA]	[NA]	[NA]	[NA]
pH of soil for fluid# determ.	pH units	9.40	9.00	9.40	9.70	8.00
pH of soil for fluid # determ. (acid)	pH units	1.40	1.40	1.30	1.30	1.30
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.90	5.00	5.00	5.00	4.90
Lead in TCLP	mg/L	1.3	[NA]	[NA]	[NA]	[NA]

Metals in TCLP USEPA1311		
Our Reference:	UNITS	43806-A-57
Your Reference	-----	Dup8
Depth	-----	-
Date Sampled		21/07/2010
Type of sample		Soil
Date extracted	-	04/08/2010
Date analysed	-	09/08/2010
pH of soil for fluid# determ.	pH units	9.80
pH of soil for fluid # determ. (acid)	pH units	1.40
Extraction fluid used	-	1
pH of final Leachate	pH units	6.00
Nickel in TCLP	mg/L	0.05

PAHs in TCLP (USEPA 1311)						
Our Reference:	UNITS	43806-A-1	43806-A-2	43806-A-9	43806-A-27	43806-A-31
Your Reference	-----	BH601	BH601	BH602	BH606	BH607
Depth	-----	0.3-0.5	0.6-0.95	1.7-1.92	2.2-2.5	0.5-0.7
Date Sampled		21/07/2010	21/07/2010	21/07/2010	20/07/2010	20/07/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/08/2010	04/08/2010	04/08/2010	04/08/2010	04/08/2010
Date analysed	-	05/08/2010	05/08/2010	05/08/2010	05/08/2010	05/08/2010
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	0.008	0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	0.001	0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	0.005	0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	0.013	0.004
Phenanthrene in TCLP	mg/L	<0.001	<0.001	0.001	0.008	0.011
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	0.001	0.002
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	0.001	0.002
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	0.001	0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d ₁₄	%	126	125	110	104	109

PAHs in TCLP (USEPA 1311)			
Our Reference:	UNITS	43806-A-42	43806-A-43
Your Reference	-----	BH610	BH610
Depth	-----	0.2-0.4	0.7-0.95
Date Sampled		20/07/2010	20/07/2010
Type of sample		Soil	Soil
Date extracted	-	04/08/2010	04/08/2010
Date analysed	-	05/08/2010	05/08/2010
Naphthalene in TCLP	mg/L	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001
Surrogate p-Terphenyl-d ₁₄	%	113	110

Method ID	Methodology Summary
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
LAB.4	Toxicity Characteristic Leaching Procedure (TCLP).
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
GC.12 subset	Leachates are extracted with Dichloromethane and analysed by GC-MS.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			03/08/2010	[NT]	[NT]	LCS-1	03/08/2010
Date analysed	-			04/08/2010	[NT]	[NT]	LCS-1	04/08/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	105%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	111%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	111%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	101%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	107%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-1	119%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	[NT]	[NT]	LCS-1	115%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	96	[NT]	[NT]	LCS-1	99%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			3/8/2010
Date analysed	-			3/8/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Metals in TCLP USEPA1311						Base II Duplicate II %RPD		
Date extracted	-			04/08/2010	[NT]	[NT]	LCS-W1	04/08/2010
Date analysed	-			09/08/2010	[NT]	[NT]	LCS-W1	09/08/2010
Chromium in TCLP	mg/L	0.01	Metals.20 ICP-AES	<0.01	[NT]	[NT]	LCS-W1	103%
Lead in TCLP	mg/L	0.03	Metals.20 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	98%
Nickel in TCLP	mg/L	0.02	Metals.20 ICP-AES	<0.02	[NT]	[NT]	LCS-W1	101%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			04/08/2010	[NT]	[NT]	LCS-W1	04/08/2010
Date analysed	-			05/08/2010	[NT]	[NT]	LCS-W1	05/08/2010
Naphthalene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	92%
Acenaphthylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	110%
Phenanthrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	109%
Anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	104%
Pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	114%
Benzo(a)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	106%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	GC.12 subset	<0.002	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in TCLP (USEPA 1311)						Base II Duplicate II %RPD		
Benzo(a)pyrene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	LCS-W1	113%
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	GC.12 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12	122	[NT]	[NT]	LCS-W1	105%

Report Comments:

Asbestos was analysed by Approved Identifier: Paul Ching

Asbestos was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

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 sample batch were within laboratory acceptance criteria.*

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

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for

Aileen Hie

From: Brendan Page [bpage@jkggroup.net.au]
Sent: Monday, 2 August 2010 03:06 PM
To: Aileen Hie
Subject: Additional Analyses, 43806 (E24125K, Pyrmont)

EIS

ENVIRONMENTAL INVESTIGATION SERVICES

A division of Jeffery & Katauskas Pty Ltd
ABN 17 003 550 801

Hi Aileen,

Could you please arrange for the following additional analyses to be undertaken on the soil samples in Envirolabs custody (all on standard TAT):

- 43806-44 PAHs
- 43806-1 TCLP prep, leachate analysis for PAHs and Pb
- 43806-2 TCLP prep, leachate analysis for PAHs and Pb
- 43806-9 TCLP prep, leachate analysis for PAHs
- 43806-11 TCLP prep, leachate analysis for Cr and Ni
- 43806-14 TCLP prep, leachate analysis for Pb
- 43806-20 TCLP prep, leachate analysis for Pb
- 43806-27 TCLP prep, leachate analysis for PAHs
- 43806-31 TCLP prep, leachate analysis for PAHs
- 43806-42 TCLP prep, leachate analysis for PAHs
- 43806-43 TCLP prep, leachate analysis for PAHs
- 43806-57 TCLP prep, leachate analysis for Ni

Envirolab Ref: 43806A

We: 9/8/10

std TAT.

Any problems please just give me a call.

Cheers.

Regards,
For and on behalf of
ENVIRONMENTAL INVESTIGATION SERVICES

Brendan Page
Environmental Scientist

115 Wicks Road, Macquarie Park, NSW, 2113
PO Box 976, North Ryde BC, NSW, 1670
Tel: 02 9888 5000
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Web: www.jkggroup.net.au

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2/08/2010



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
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www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 43809

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:

E24125K, Pyrmont

No. of samples:

15 Soils

Date samples received:

22/07/10

Date completed instructions received:

22/07/10

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:

30/07/10

Date of Preliminary Report:

Not Issued

Issue Date:

30/07/10

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
Business Development & Quality Manager

Envirolab Reference: 43809
Revision No: R 00



sPOCAS Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43809-1 BH601 0.3-0.5 21/07/2010 Soil	43809-2 BH601 1.3-1.5 21/07/2010 Soil	43809-3 BH601 2.8-3.0 21/07/2010 Soil	43809-4 BH601 4.2-4.5 21/07/2010 Soil	43809-5 BH601 5.8-6.0 21/07/2010 Soil
Date prepared	-	26/7/10	26/7/10	26/7/10	26/7/10	26/7/10
Date analysed	-	26/7/10	26/7/10	26/7/10	26/7/10	26/7/10
pH _{kcl}	pH units	9.1	9.1	7.7	8.5	8.8
TAA pH 6.5	moles H ⁺ /t	<5	<5	<5	<5	<5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
pH _{ox}	pH units	7.6	7.8	4.9	2.6	3.0
TPA pH 6.5	moles H ⁺ /t	<5.0	<5.0	<5.0	238	283
s-TPA pH 6.5	%w/w S	<0.01	<0.01	<0.01	0.38	0.45
TSA pH 6.5	moles H ⁺ /t	<5.0	<5.0	<5.0	238	283
s-TSA pH 6.5	%w/w S	<0.01	<0.01	<0.01	0.38	0.45
ANCE	% CaCO ₃	0.75	0.88	<0.05	<0.05	<0.05
a-ANCE	moles H ⁺ /t	150	175	<5	<5	<5
s-ANCE	%w/w S	0.24	0.28	<0.05	<0.05	<0.05
SKCl	%w/w S	0.014	0.020	0.010	0.067	0.066
SP	%w/w	0.060	0.036	0.012	0.68	1.4
SPOS	%w/w	0.047	0.016	<0.005	0.61	1.4
a-SPOS	moles H ⁺ /t	29	9.9	<5.0	380	843
CaKCl	%w/w	0.20	0.23	0.014	0.10	0.19
CaP	%w/w	0.45	0.41	0.013	0.13	0.63
CaA	%w/w	0.25	0.18	<0.005	0.032	0.44
MgKCl	%w/w	0.008	<0.005	0.017	0.047	0.070
MgP	%w/w	0.022	0.018	0.016	0.075	0.22
MgA	%w/w	0.013	0.016	<0.005	0.028	0.15
SRAS	%w/w	<0.005	<0.005	<0.005	<0.005	<0.005
SHCl	%w/w S	0.016	0.026	0.008	0.051	0.069
SNAS	%w/w S	<0.005	0.006	<0.005	<0.005	<0.005
a-SNAS	moles H ⁺ /t	<5	<5	<5	<5	<5
s-SNAS	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
a-Net Acidity	moles H ⁺ /t	<10	<10	<10	285	469
Liming rate	kg CaCO ₃ /t	<0.75	<0.75	<0.75	21	35
a-Net Acidity without ANCE	moles H ⁺ /t	29	<10	<10	<10	<10
Liming rate without ANCE	kg CaCO ₃ /t	2.2	<0.75	<0.75	<0.75	<0.75

sPOCAS Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	43809-6 BH605 0.3-0.5 20/07/2010 Soil	43809-8 BH605 2.8-3.0 20/07/2010 Soil	43809-11 BH606 0.3-0.5 20/07/2010 Soil	43809-12 BH606 0.8-1.0 20/07/2010 Soil	43809-14 BH608 0.3-0.5 20/07/2010 Soil
Date prepared	-	26/7/10	26/7/10	26/7/10	26/7/10	26/7/10
Date analysed	-	26/7/10	26/7/10	26/7/10	26/7/10	26/7/10
pH _{KCl}	pH units	9.3	7.0	9.6	9.1	5.6
TAA pH 6.5	moles H ⁺ /t	<5	<5	<5	<5	<5
s-TAA pH 6.5	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
pH _{ox}	pH units	7.3	2.5	7.6	7.4	4.0
TPA pH 6.5	moles H ⁺ /t	<5.0	288	<5.0	<5.0	20
s-TPA pH 6.5	%w/w S	<0.01	0.46	<0.01	<0.01	0.032
TSA pH 6.5	moles H ⁺ /t	<5.0	288	<5.0	<5.0	17
s-TSA pH 6.5	%w/w S	<0.01	0.46	<0.01	<0.01	0.028
ANCE	% CaCO ₃	0.63	<0.05	1.4	0.4	<0.05
a-ANCE	moles H ⁺ /t	125	<5	275	75	<5
s-ANCE	%w/w S	0.20	<0.05	0.44	0.12	<0.05
SKCl	%w/w S	<0.005	0.056	<0.005	<0.005	0.006
Sp	%w/w	0.011	0.65	0.007	0.018	0.019
SPOS	%w/w	0.008	0.59	<0.005	0.014	0.013
a-SPOS	moles H ⁺ /t	<5.0	371	<5.0	8.9	8.4
CaKCl	%w/w	0.17	0.16	0.19	0.17	0.046
CaP	%w/w	0.29	0.17	0.56	0.25	0.044
CaA	%w/w	0.12	0.017	0.38	0.076	<0.005
MgKCl	%w/w	<0.005	0.025	0.008	0.010	0.016
MgP	%w/w	0.011	0.029	0.014	0.016	0.015
MgA	%w/w	0.008	0.005	0.006	0.006	<0.005
SRAS	%w/w	<0.005	<0.005	<0.005	<0.005	<0.005
SHCl	%w/w S	0.007	0.064	0.005	0.006	0.009
SNAS	%w/w S	<0.005	0.008	<0.005	<0.005	<0.005
a-SNAS	moles H ⁺ /t	<5	<5	<5	<5	<5
s-SNAS	%w/w S	<0.01	<0.01	<0.01	<0.01	<0.01
a-Net Acidity	moles H ⁺ /t	<10	315	<10	<10	11
Liming rate	kg CaCO ₃ /t	<0.75	24	<0.75	<0.75	0.82
a-Net Acidity without ANCE	moles H ⁺ /t	<10	<10	<10	<10	<10
Liming rate without ANCE	kg CaCO ₃ /t	<0.75	<0.75	<0.75	<0.75	<0.75

Method ID	Methodology Summary
LAB.64	sPOCAS determined using titrimetric and ICP-AES techniques. Based on Acid Sulfate Soils Laboratory Methods Guidelines, Version 2.1 - June 2004.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sPOCAS						Base II Duplicate II %RPD		
Date prepared	-			26/7/10	43809-12	26/7/10 26/7/10	LCS	26/7/10
Date analysed	-			26/7/10	43809-12	26/7/10 26/7/10	LCS	26/7/10
pH _{KCl}	pH units		LAB.64	[NT]	43809-12	9.1 9.1 RPD: 0	LCS	102%
TAA pH 6.5	moles H ⁺ /t	5	LAB.64	<5	43809-12	<5 <5	LCS	110%
s-TAA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43809-12	<0.01 <0.01	LCS	107%
pH _{ox}	pH units		LAB.64	[NT]	43809-12	7.4 7.4 RPD: 0	LCS	101%
TPA pH 6.5	moles H ⁺ /t	5	LAB.64	<5.0	43809-12	<5.0 <5.0	LCS	103%
s-TPA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43809-12	<0.01 <0.01	LCS	103%
TSA pH 6.5	moles H ⁺ /t	5	LAB.64	<5.0	43809-12	<5.0 <5.0	LCS	102%
s-TSA pH 6.5	%w/w S	0.01	LAB.64	<0.01	43809-12	<0.01 <0.01	LCS	101%
ANCE	% CaCO ₃	0.05	LAB.64	<0.05	43809-12	0.4 0.50 RPD: 22	[NR]	[NR]
a-ANCE	moles H ⁺ /t	5	LAB.64	<5	43809-12	75 100 RPD: 29	[NR]	[NR]
s-ANCE	%w/w S	0.05	LAB.64	<0.05	43809-12	0.12 0.16 RPD: 29	[NR]	[NR]
SKCl	%w/w S	0.005	LAB.64	<0.005	43809-12	<0.005 <0.005	LCS	138%
SP	%w/w	0.005	LAB.64	<0.005	43809-12	0.018 0.020 RPD: 11	LCS	102%
SPOS	%w/w	0.005	LAB.64	<0.005	43809-12	0.014 0.015 RPD: 7	LCS	95%
a-SPOS	moles H ⁺ /t	5	LAB.64	<5.0	43809-12	8.9 9.6 RPD: 8	LCS	96%
CaKCl	%w/w	0.005	LAB.64	<0.005	43809-12	0.17 0.17 RPD: 0	LCS	102%
CaP	%w/w	0.005	LAB.64	<0.005	43809-12	0.25 0.24 RPD: 4	LCS	80%
CaA	%w/w	0.005	LAB.64	<0.005	43809-12	0.076 0.079 RPD: 4	[NR]	[NR]
MgKCl	%w/w	0.005	LAB.64	<0.005	43809-12	0.010 0.010 RPD: 0	LCS	103%
MgP	%w/w	0.005	LAB.64	<0.005	43809-12	0.016 0.016 RPD: 0	LCS	97%
MgA	%w/w	0.005	LAB.64	<0.005	43809-12	0.006 0.006 RPD: 0	[NR]	[NR]
SRAS	%w/w	0.005	LAB.64	<0.005	43809-12	<0.005 <0.005	[NR]	[NR]
SHCl	%w/w S	0.005	LAB.64	<0.005	43809-12	0.006 0.007 RPD: 15	LCS	93%
SNAS	%w/w S	0.005	LAB.64	<0.005	43809-12	<0.005 <0.005	[NR]	[NR]
a-SNAS	moles H ⁺ /t	5	LAB.64	<5	43809-12	<5 <5	[NR]	[NR]
s-SNAS	%w/w S	0.01	LAB.64	<0.01	43809-12	<0.01 <0.01	[NR]	[NR]
a-Net Acidity	moles H ⁺ /t	10	LAB.64	<10	43809-12	<10 <10	LCS	95%
Liming rate	kg CaCO ₃ /t	0.75	LAB.64	<0.75	43809-12	<0.75 <0.75	LCS	96%

Client Reference: E24125K, Pyrmont

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sPOCAS						Base II Duplicate II %RPD		
a-Net Acidity without ANCE	moles H ⁺ /t	10	LAB.64	<10	43809-12	<10 <10	[NR]	[NR]
Liming rate without ANCE	kg CaCO ₃ /t	0.75	LAB.64	<0.75	43809-12	<0.75 <0.75	[NR]	[NR]

Report Comments:

Asbestos was analysed by Approved Identifier: Not applicable for this job

Asbestos was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

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 sample batch were within laboratory acceptance criteria.*

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

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for



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SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC NSW 1670

ph: 02 9888 5000
Fax: 02 9888 5001

Attention: Brendan Page

Sample log in details:

Your reference:	E24125K, Pyrmont
Envirolab Reference:	43809
Date received:	22/07/10
Date results expected to be reported:	30/07/10

Samples received in appropriate condition for analysis:	YES
No. of samples provided	15 Soils
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice Pack

Comments:

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

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

SAMPLE AND CHAIN OF CUSTODY FORM

[illegible]

Job No: 43809
Date received: 22/7/10
Time received: 1130.
Received by: JHE
Temp: Cool/Ambient
Cooling: Ice/Freezer
Country: Ireland Breaker/Name



Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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CERTIFICATE OF ANALYSIS 43817

Client:

Environmental Investigation Services
PO Box 976
North Ryde BC
NSW 1670

Attention: Brendan Page

Sample log in details:

Your Reference:	<u>E24125K, Pyrmont</u>
No. of samples:	5 Waters
Date samples received:	22/07/2010
Date completed instructions received:	22/07/2010

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	29/07/10
Date of Preliminary Report:	Not Issued
Issue Date:	6/08/10

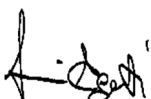
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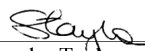
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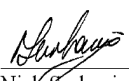
Tests not covered by NATA are denoted with *.

Results Approved By:


Giovanni Agosti
Technical Manager


Sandra Taylor
Senior Organic Chemist


Jacinta Hurst
Laboratory Manager


Nick Sarlamis
Inorganics Supervisor

Envirolab Reference: 43817
Revision No: R 00



VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43817-1 SWA 22/07/2010 Water	43817-2 SWB 22/07/2010 Water	43817-3 SWC 22/07/2010 Water	43817-4 SW Dup 22/07/2010 Water
Date extracted	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10	<10
Bromomethane	µg/L	<10	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10	<10
1,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0
Trans-1,2-dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0
Cis-1,2-dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	µg/L	<1.0	<1.0	<1.0	<1.0
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0
2,2-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0
Cyclohexane	µg/L	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	µg/L	<1.0	<1.0	<1.0	<1.0
Benzene	µg/L	<1.0	<1.0	<1.0	<1.0
Dibromomethane	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0
Trichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	µg/L	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0
1,3-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	µg/L	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	µg/L	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	µg/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Bromoform	µg/L	<1.0	<1.0	<1.0	<1.0
m+p-xylene	µg/L	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	µg/L	<1.0	<1.0	<1.0	<1.0

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	43817-1 SWA 22/07/2010 Water	43817-2 SWB 22/07/2010 Water	43817-3 SWC 22/07/2010 Water	43817-4 SW Dup 22/07/2010 Water
o-xylene	µg/L	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Bromobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	µg/L	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	µg/L	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
Tert-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Sec-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	µg/L	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	µg/L	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluoromethane	%	111	117	118	118
Surrogate toluene-d8	%	92	93	102	108
Surrogate 4-BFB	%	97	96	98	97

vTPH & BTEX in Water						
Our Reference:	UNITS	43817-1	43817-2	43817-3	43817-4	43817-5
Your Reference	-----	SWA	SWB	SWC	SW Dup	SW Trip Spike
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
Date analysed	-	24/7/2010	24/7/2010	24/7/2010	24/7/2010	24/7/2010
TPH C ₆ - C ₉	µg/L	<10	<10	<10	<10	[NA]
Benzene	µg/L	[NA]	[NA]	[NA]	[NA]	88%
Toluene	µg/L	[NA]	[NA]	[NA]	[NA]	86%
Ethylbenzene	µg/L	[NA]	[NA]	[NA]	[NA]	85%
m+p-xylene	µg/L	[NA]	[NA]	[NA]	[NA]	74%
o-xylene	µg/L	[NA]	[NA]	[NA]	[NA]	88%
Surrogate Dibromofluoromethane	%	111	117	118	118	116
Surrogate toluene-d8	%	92	93	102	108	102
Surrogate 4-BFB	%	97	96	98	97	99

sTPH in Water (C10-C36)					
Our Reference:	UNITS	43817-1	43817-2	43817-3	43817-4
Your Reference	-----	SWA	SWB	SWC	SW Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Water	Water	Water	Water
Date extracted	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Date analysed	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
TPH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50
TPH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100
TPH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Surrogate o-Terphenyl	%	105	86	86	85

PAHs in Water - Low Level					
Our Reference:	UNITS	43817-1	43817-2	43817-3	43817-4
Your Reference	-----	SWA	SWB	SWC	SW Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Water	Water	Water	Water
Date extracted	-	26/07/2010	26/07/2010	26/07/2010	26/07/2010
Date analysed	-	26/07/2010	26/07/2010	26/07/2010	26/07/2010
Naphthalene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d ₁₄	%	113	97	101	100

HM in water - dissolved					
Our Reference:	UNITS	43817-1	43817-2	43817-3	43817-4
Your Reference	-----	SWA	SWB	SWC	SW Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Water	Water	Water	Water
Date prepared	-	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Date analysed	-	27/07/2010	27/07/2010	27/07/2010	27/07/2010
Arsenic-Dissolved	µg/L	2	2	2	3
Cadmium-Dissolved	µg/L	0.2	0.1	0.2	0.2
Chromium-Dissolved	µg/L	<1	<1	<1	<1
Copper-Dissolved	µg/L	5	8	8	12
Lead-Dissolved	µg/L	<1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5
Nickel-Dissolved	µg/L	<1	<1	1	1
Zinc-Dissolved	µg/L	26	24	29	25

Miscellaneous Inorganics					
Our Reference:	UNITS	43817-1	43817-2	43817-3	43817-4
Your Reference	-----	SWA	SWB	SWC	SW Dup
Date Sampled	-----	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Type of sample		Water	Water	Water	Water
Date prepared	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Date analysed	-	26/7/2010	26/7/2010	26/7/2010	26/7/2010
Total Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005

Organtin Compounds in Water			
Our Reference:	UNITS	43817-2	43817-3
Your Reference	-----	SWB	SWC
Date Sampled	-----	22/07/2010	22/07/2010
Type of sample		Water	Water
Monobutyltin	ngSn/L	<2.0	4.9
Dibutyltin	ngSn/L	<2.0	<2.0
Tributyltin	ngSn/L	<2.0	<2.0
Surrogate (Tripropyltin)	%	100	100

Method ID	Methodology Summary
GC.13	Water samples are analysed directly by purge and trap GC-MS.
GC.16	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.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals.22 ICP-MS	Determination of various metals by ICP-MS.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.13	Cyanide - total determined colourimetrically after distillation. Free cyanide determined colourimetrically after filtration. Based on APHA 20th ED, 4500-CN_C,E.
Ext-020	Analysis subcontracted to Australian Government - National Measurement Institute. NATA Accreditation No: 198

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
Date extracted	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
Dichlorodifluoromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Chloromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Bromomethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Chloroethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	µg/L	10	GC.13	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Trans-1,2-dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	100%
Cis-1,2-dichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Chloroform	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	101%
2,2-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	107%
1,1,1-trichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	92%
1,1-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Cyclohexane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Dibromomethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Trichloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	125%
Bromodichloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	100%
trans-1,3-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	87%
1,2-dibromoethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	99%
1,1,1,2-tetrachloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromoform	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
m+p-xylene	µg/L	2	GC.13	<2.0	[NT]	[NT]	[NR]	[NR]
Styrene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
1,1,2,2-tetrachloroethane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
o-xylene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Bromobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Tert-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Sec-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Surrogate	%		GC.13	92	[NT]	[NT]	LCS-W1	99%
Dibromofluoromethane								
Surrogate toluene-d8	%		GC.13	96	[NT]	[NT]	LCS-W1	95%
Surrogate 4-BFB	%		GC.13	107	[NT]	[NT]	LCS-W1	97%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
Date analysed	-			24/7/2010	[NT]	[NT]	LCS-W1	24/7/2010
TPH C ₆ - C ₉	µg/L	10	GC.16	<10	[NT]	[NT]	LCS-W1	96%
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	97%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	100%
Ethylbenzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	102%
m+p-xylene	µg/L	2	GC.16	<2.0	[NT]	[NT]	LCS-W1	90%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	91%
Surrogate	%		GC.16	92	[NT]	[NT]	LCS-W1	108%
Dibromofluoromethane								
Surrogate toluene-d8	%		GC.16	96	[NT]	[NT]	LCS-W1	99%
Surrogate 4-BFB	%		GC.16	107	[NT]	[NT]	LCS-W1	103%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			26/7/2010	[NT]	[NT]	LCS-W1	26/7/2010
Date analysed	-			26/7/2010	[NT]	[NT]	LCS-W1	26/7/2010
TPH C ₁₀ - C ₁₄	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W1	84%
TPH C ₁₅ - C ₂₈	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	106%
TPH C ₂₉ - C ₃₆	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	97%
Surrogate o-Terphenyl	%		GC.3	116	[NT]	[NT]	LCS-W1	117%

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	-			26/07/2010	[NT]	[NT]	LCS-W1	26/07/2010
Date analysed	-			26/07/2010	[NT]	[NT]	LCS-W1	26/07/2010
Naphthalene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	117%
Acenaphthylene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	105%
Phenanthrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	109%
Anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water - Low Level						Base II Duplicate II %RPD		
Fluoranthene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	103%
Pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	106%
Benzo(a)anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	114%
Benzo(b+k)fluoranthene	µg/L	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-W1	114%
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	131	[NT]	[NT]	LCS-W1	130%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base II Duplicate II %RPD		
Date prepared	-			27/07/2010	43817-1	27/07/2010 27/07/2010	LCS-W1	27/07/2010
Date analysed	-			27/07/2010	43817-1	27/07/2010 27/07/2010	LCS-W1	27/07/2010
Arsenic-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	2 2 RPD: 0	LCS-W1	96%
Cadmium-Dissolved	µg/L	0.1	Metals.22 ICP-MS	<0.1	43817-1	0.2 0.1 RPD: 67	LCS-W1	101%
Chromium-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	<1 <1	LCS-W1	91%
Copper-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	5 8 RPD: 46	LCS-W1	90%
Lead-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	<1 <1	LCS-W1	100%
Mercury-Dissolved	µg/L	0.5	Metals.21 CV-AAS	<0.5	43817-1	<0.5 <0.5	LCS-W1	96%
Nickel-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	<1 <1	LCS-W1	88%
Zinc-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	43817-1	26 24 RPD: 8	LCS-W1	93%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base II Duplicate II %RPD		
Date prepared	-			26/7/2010	43817-1	26/7/2010 26/7/2010	LCS-W1	26/07/2010
Date analysed	-			26/7/2010	43817-1	26/7/2010 26/7/2010	LCS-W1	26/07/2010
Total Cyanide	mg/L	0.005	LAB.13	<0.005	43817-1	<0.005 <0.005	LCS-W1	97%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organotin Compounds in Water						Base II Duplicate II %RPD		
Monobutyltin	ngSn/L	2	Ext-020	<5	[NT]	[NT]	LCS-W1	58%
Dibutyltin	ngSn/L	2	Ext-020	<5	[NT]	[NT]	LCS-W1	67%
Tributyltin	ngSn/L	2	Ext-020	<2.0	[NT]	[NT]	LCS-W1	70%
Surrogate (Tripropyltin)	%		Ext-020	[NT]	[NT]	[NT]	LCS-W1	69%

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics			Base + Duplicate + %RPD		
Date prepared	-	[NT]	[NT]	43817-2	26/7/2010
Date analysed	-	[NT]	[NT]	43817-2	26/7/2010
Total Cyanide	mg/L	[NT]	[NT]	43817-2	95%

Report Comments:

Organotins analysed by NMI. Report No.RN808614.

Asbestos was analysed by Approved Identifier: Not applicable for this job

Asbestos was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test NT: Not tested PQL: Practical Quantitation Limit <: Less than >: Greater than

RPD: Relative Percent Difference NA: Test not required LCS: Laboratory Control Sample NR: Not requested

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 sample batch were within laboratory acceptance criteria.

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

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable. Surrogates: 60-140% is acceptable for general organics and 10-140% for