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CERTIFICATE OF ANALYSIS 44211

Client:
Enviropacific Services (Chatswood) Pty Ltd
1/28 Barcoo St
Chatswood
NSW 2067

Attention: Marty Croker

Sample log in details:

Your Reference:	**E10100 Macdonaldtown Gasworks**
No. of samples:	7 Soils
Date samples received:	02/08/10
Date completed instructions received:	02/08/10

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

Rhian Morgan
Metals Supervisor

Nancy Zhang
Chemist

VOCs in soil						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
styrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	65	69	71	61	69
Surrogate aaa-Trifluorotoluene	%	98	102	89	111	97
Surrogate Toluene-d_8	%	90	90	89	89	91
Surrogate 4-Bromofluorobenzene	%	85	85	85	85	89

VOCs in soil			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date extracted	-	3/8/2010	3/8/2010
Date analysed	-	5/8/2010	5/8/2010
styrene	mg/kg	<1.0	<1.0
Surrogate Dibromofluorometha	%	70	71
Surrogate aaa-Trifluorotoluene	%	93	85
Surrogate Toluene-d_8	%	89	88
Surrogate 4-Bromofluorobenzene	%	89	102

vTPH & BTEX in Soil						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Date analysed	-	05/08/2010	05/08/2010	05/08/2010	05/08/2010	05/08/2010
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	%	98	102	89	131	97

vTPH & BTEX in Soil			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date extracted	-	03/08/2010	03/08/2010
Date analysed	-	05/08/2010	05/08/2010
vTPH C_6 - C_9	mg/kg	<25	<25
Benzene	mg/kg	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	93	71

sTPH in Soil (C10-C36) Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date extracted	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
Date analysed	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
TPH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TPH C_{15} - C_{28}	mg/kg	250	200	190	<100	130
TPH C_{29} - C_{36}	mg/kg	110	120	110	<100	<100
Surrogate o-Terphenyl	%	#	133	131	138	#

sTPH in Soil (C10-C36) Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	3/8/2010	3/8/2010
Date analysed	-	3/8/2010	3/8/2010
TPH C_{10} - C_{14}	mg/kg	120	170
TPH C_{15} - C_{28}	mg/kg	340	330
TPH C_{29} - C_{36}	mg/kg	<100	<100
Surrogate o-Terphenyl	%	#	#

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date extracted	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Naphthalene	mg/kg	0.6	0.5	0.4	2.7	5.0
Acenaphthylene	mg/kg	0.7	0.6	1.4	0.5	0.6
Acenaphthene	mg/kg	<0.1	<0.1	0.2	0.4	0.4
Fluorene	mg/kg	0.2	0.2	0.8	0.9	1.0
Phenanthrene	mg/kg	2.9	2.2	5.6	2.6	2.5
Anthracene	mg/kg	0.8	0.6	1.3	0.7	0.8
Fluoranthene	mg/kg	6.3	4.3	6.6	1.8	1.9
Pyrene	mg/kg	7.1	5.0	6.7	2.3	2.4
Benzo(a)anthracene	mg/kg	4.4	3.3	3.4	0.9	1
Chrysene	mg/kg	4.0	3.0	2.8	0.9	0.9
Benzo(b+k)fluoranthene	mg/kg	6.0	5.0	5.1	1.0	1.1
Benzo(a)pyrene	mg/kg	4.7	3.8	3.9	0.8	0.8
Indeno(1,2,3-c,d)pyrene	mg/kg	2.9	2.2	2.2	0.4	0.5
Dibenzo(a,h)anthracene	mg/kg	0.7	0.6	0.5	0.1	0.1
Benzo(g,h,i)perylene	mg/kg	2.7	2.3	2.2	0.5	0.5
Surrogate p-Terphenyl-d_{14}	%	81	77	76	77	77

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	3/8/2010	3/8/2010
Date analysed	-	5/8/2010	5/8/2010
Naphthalene	mg/kg	16	18
Acenaphthylene	mg/kg	1.2	1.2
Acenaphthene	mg/kg	0.9	0.9
Fluorene	mg/kg	2.8	2.8
Phenanthrene	mg/kg	6.5	6.8
Anthracene	mg/kg	1.8	1.8
Fluoranthene	mg/kg	3.9	4.2
Pyrene	mg/kg	4.9	5.3
Benzo(a)anthracene	mg/kg	1.9	2.0
Chrysene	mg/kg	1.7	1.8
Benzo(b+k)fluoranthene	mg/kg	2.1	2.1
Benzo(a)pyrene	mg/kg	1.7	1.7
Indeno(1,2,3-c,d)pyrene	mg/kg	0.8	0.8
Dibenzo(a,h)anthracene	mg/kg	0.3	0.2
Benzo(g,h,i)perylene	mg/kg	1	1
Surrogate p-Terphenyl-d_{14}	%	77	77

Speciated Phenols in Soil						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/08/2010	06/08/2010	06/08/2010	06/08/2010	06/08/2010
Date analysed	-	07/08/2010	07/08/2010	07/08/2010	07/08/2010	07/08/2010
Phenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-Methylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
3/4-Methylphenol	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
2-Nitrophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dimethylphenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-Dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,6-dichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,5-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,6-trichlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,4-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
4-nitrophenol	mg/kg	<10	<10	<10	<10	<10
2,3,4,6-tetrachlorophenol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10	<10	<10
pentachlorophenol	mg/kg	<10	<10	<10	<10	<10
Surrogate 2-fluorophenol	%	#	#	#	82	#
Surrogate Phenol-d_6	%	#	#	#	36	#
Surrogate 2,4,6-Tribromophenol	%	#	#	#	18	#
Surrogate p-Terphenyl-d_{14}	%	89	95	97	88	90

Speciated Phenols in Soil			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date extracted	-	06/08/2010	06/08/2010
Date analysed	-	07/08/2010	07/08/2010
Phenol	mg/kg	<1.0	<1.0
2-Chlorophenol	mg/kg	<1.0	<1.0
2-Methylphenol	mg/kg	<1.0	<1.0
3/4-Methylphenol	mg/kg	<2.0	<2.0
2-Nitrophenol	mg/kg	<1.0	<1.0
2,4-Dimethylphenol	mg/kg	<1.0	<1.0
2,4-Dichlorophenol	mg/kg	<1.0	<1.0
2,6-dichlorophenol	mg/kg	<1.0	<1.0
2,4,5-trichlorophenol	mg/kg	<1.0	<1.0
2,4,6-trichlorophenol	mg/kg	<1.0	<1.0
2,4-dinitrophenol	mg/kg	<10	<10
4-nitrophenol	mg/kg	<10	<10
2,3,4,6-tetrachlorophenol	mg/kg	<1.0	<1.0
2-methyl-4,6-dinitrophenol	mg/kg	<10	<10
pentachlorophenol	mg/kg	<10	<10
Surrogate 2-fluorophenol	%	#	82
Surrogate Phenol-d_6	%	#	22
Surrogate 2,4,6-Tribromophenol	%	#	86
Surrogate p-Terphenyl-d_{14}	%	91	109

Acid Extractable metals in soil						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Date analysed	-	04/08/2010	04/08/2010	04/08/2010	04/08/2010	04/08/2010
Arsenic	mg/kg	26	35	29	4	5
Cadmium	mg/kg	1	1.2	1.0	<0.5	<0.5
Chromium	mg/kg	29	21	24	20	21
Lead	mg/kg	170	210	300	16	17
Mercury	mg/kg	0.4	0.4	0.3	<0.1	<0.1
Nickel	mg/kg	20	19	20	2	4

Acid Extractable metals in soil			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date digested	-	03/08/2010	03/08/2010
Date analysed	-	04/08/2010	04/08/2010
Arsenic	mg/kg	7	4
Cadmium	mg/kg	<0.5	<0.5
Chromium	mg/kg	28	18
Lead	mg/kg	21	16
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	4	1

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date prepared	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
Date analysed	-	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010
Moisture	%	12	14	10	23	20

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date prepared	-	3/8/2010	3/8/2010
Date analysed	-	3/8/2010	3/8/2010
Moisture	%	19	24

VOCs in Zero Headspace ASLP Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date extracted	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Styrene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluoromethane	%	88	81	76	99	87
Surrogate toluene-d8	%	100	99	99	105	109
Surrogate 4-BFB	%	92	94	90	113	100

VOCs in Zero Headspace ASLP Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	5/8/2010	5/8/2010
Date analysed	-	5/8/2010	5/8/2010
Styrene	µg/L	<1.0	<1.0
Surrogate Dibromofluoromethane	%	89	105
Surrogate toluene-d8	%	111	113
Surrogate 4-BFB	%	106	105

BTEX in Zero Headspace						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	4.4	<1.0
m+p-xylene	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0
o-xylene	µg/L	<1.0	<1.0	<1.0	2.3	<1.0
Surrogate Dibromofluoromethane	%	88	81	76	99	87
Surrogate toluene-d8	%	100	99	99	105	109
Surrogate 4-BFB	%	92	94	90	113	100

BTEX in Zero Headspace			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date extracted	-	5/8/2010	5/8/2010
Date analysed	-	5/8/2010	5/8/2010
Benzene	µg/L	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0
Ethylbenzene	µg/L	2.6	1.5
m+p-xylene	µg/L	<2.0	<2.0
o-xylene	µg/L	1.9	1.5
Surrogate Dibromofluoromethane	%	89	105
Surrogate toluene-d8	%	111	113
Surrogate 4-BFB	%	106	105

Metals-ASLP Neutral (ICP-MS)						
Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
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
pH of final Leachate	pH units	12.3	12.4	12.7	11.5	12.5
Arsenic in ASLP	µg/L	2	<1	<1	2	2
Cadmium in ASLP	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium in ASLP	µg/L	42	36	28	13	36
Lead in ASLP	µg/L	1	3	6	<1	<1
Mercury in ASLP	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel in ASLP	µg/L	4	5	4	<1	1

Metals-ASLP Neutral (ICP-MS)			
Our Reference:	UNITS	44211-6	44211-7
Your Reference	-------------	Material 3 Post 20%	Control
Date Sampled	------------	2/08/2010	2/08/2010
Type of sample		Soil	Soil
Date extracted	-	04/08/2010	04/08/2010
Date analysed	-	05/08/2010	05/08/2010
pH of final Leachate	pH units	12.4	9.20
Arsenic in ASLP	µg/L	2	<1
Cadmium in ASLP	µg/L	<0.1	<0.1
Chromium in ASLP	µg/L	43	<1
Lead in ASLP	µg/L	<1	<1
Mercury in ASLP	µg/L	<0.50	<0.50
Nickel in ASLP	µg/L	<1	<1

sTPH in water leach Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date extracted	-	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010
Date analysed	-	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010
TPH C_{10} - C_{14}	µg/L	160	100	110	940	880
TPH C_{15} - C_{28}	µg/L	240	180	180	480	420
TPH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	128	111	114	117	131

sTPH in water leach Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	4/8/2010	4/8/2010
Date analysed	-	4/8/2010	4/8/2010
TPH C_{10} - C_{14}	µg/L	1,400	430
TPH C_{15} - C_{28}	µg/L	550	250
TPH C_{29} - C_{36}	µg/L	<100	<100
Surrogate o-Terphenyl	%	119	104

PAHs in water leach Our Reference:	UNITS	44211-1	44211-2	44211-3	44211-4	44211-5
Your Reference	-------------	Material 1 Post 5%	Material 1 Post 12.5%	Material 1 Post 20%	Material 3 Post 5%	Material 3 Post 12.5%
Date Sampled	------------	2/08/2010	2/08/2010	2/08/2010	2/08/2010	2/08/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Naphthalene in ASLP	mg/L	0.001	<0.001	<0.001	0.20	0.27
Acenaphthylene in ASLP	mg/L	<0.001	<0.001	<0.001	0.002	0.001
Acenaphthene in ASLP	mg/L	<0.001	<0.001	<0.001	0.009	0.008
Fluorene in ASLP	mg/L	<0.001	<0.001	<0.001	0.016	0.017
Phenanthrene in ASLP	mg/L	<0.001	<0.001	<0.001	0.021	0.022
Anthracene in ASLP	mg/L	<0.001	<0.001	<0.001	0.004	0.005
Fluoranthene in ASLP	mg/L	<0.001	<0.001	<0.001	0.003	0.003
Pyrene in ASLP	mg/L	<0.001	<0.001	<0.001	0.003	0.003
Benzo(a)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in ASLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in ASLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d_{14}	%	105	88	95	90	99

PAHs in water leach Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	4/8/2010	4/8/2010
Date analysed	-	5/8/2010	5/8/2010
Naphthalene in ASLP	mg/L	0.42	0.059
Acenaphthylene in ASLP	mg/L	0.002	0.001
Acenaphthene in ASLP	mg/L	0.009	0.004
Fluorene in ASLP	mg/L	0.019	0.007
Phenanthrene in ASLP	mg/L	0.022	0.008
Anthracene in ASLP	mg/L	0.004	0.002
Fluoranthene in ASLP	mg/L	0.003	0.001
Pyrene in ASLP	mg/L	0.003	0.001
Benzo(a)anthracene in ASLP	mg/L	<0.001	<0.001
Chrysene in ASLP	mg/L	<0.001	<0.001
Benzo(b+k)fluoranthene in ASLP	mg/L	<0.002	<0.002
Benzo(a)pyrene in ASLP	mg/L	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	<0.001	<0.001
Dibenzo(a,h)anthracene in ASLP	mg/L	<0.001	<0.001
Benzo(g,h,i)perylene in ASLP	mg/L	<0.001	<0.001
Surrogate p-Terphenyl-d_{14}	%	98	90

Speciated Phenols in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-1 Material 1 Post 5% 2/08/2010 Soil	44211-2 Material 1 Post 12.5% 2/08/2010 Soil	44211-3 Material 1 Post 20% 2/08/2010 Soil	44211-4 Material 3 Post 5% 2/08/2010 Soil	44211-5 Material 3 Post 12.5% 2/08/2010 Soil
Date extracted	-	4/8/2010	4/8/2010	4/8/2010	4/8/2010	4/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010	5/8/2010	5/8/2010
Phenol	µg/L	<10	<10	<10	<10	<10
2-Chlorophenol	µg/L	<10	<10	<10	<10	<10
2-Methylphenol	µg/L	<10	<10	<10	<10	<10
3/4-Methylphenol	µg/L	<20	<20	<20	<20	<20
2-Nitrophenol	µg/L	<10	<10	<10	<10	<10
2,4-Dimethylphenol	µg/L	<10	<10	<10	<10	<10
2,4-Dichlorophenol	µg/L	<10	<10	<10	<10	<10
2,6-Dichlorophenol	µg/L	<10	<10	<10	<10	<10
2,4,5-Trichlorophenol	µg/L	<10	<10	<10	<10	<10
2,4,6-Trichlorophenol	µg/L	<10	<10	<10	<10	<10
2,4-Dinitrophenol	µg/L	<100	<100	<100	<100	<100
4-Nitrophenol	µg/L	<100	<100	<100	<100	<100
2,3,4,6-Tetrachlorophenol	µg/L	<10	<10	<10	<10	<10
2-methyl-4,6-dinitrophenol	µg/L	<100	<100	<100	<100	<100
Pentachlorophenol	µg/L	<100	<100	<100	<100	<100
Surrogate 2-fluorophenol	%	62	56	65	74	70
Surrogate Phenol-d_6	%	42	38	43	52	47
Surrogate 2,4,6-Tribromophenol	%	129	97	104	127	118
Surrogate *p*-Terphenyl-d_{14}	%	140	109	121	132	140

Speciated Phenols in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44211-6 Material 3 Post 20% 2/08/2010 Soil	44211-7 Control 2/08/2010 Soil
Date extracted	-	4/8/2010	4/8/2010
Date analysed	-	5/8/2010	5/8/2010
Phenol	µg/L	<10	<10
2-Chlorophenol	µg/L	<10	<10
2-Methylphenol	µg/L	<10	<10
3/4-Methylphenol	µg/L	<20	<20
2-Nitrophenol	µg/L	<10	<10
2,4-Dimethylphenol	µg/L	<10	<10
2,4-Dichlorophenol	µg/L	<10	<10
2,6-Dichlorophenol	µg/L	<10	<10
2,4,5-Trichlorophenol	µg/L	<10	<10
2,4,6-Trichlorophenol	µg/L	<10	<10
2,4-Dinitrophenol	µg/L	<100	<100
4-Nitrophenol	µg/L	<100	<100
2,3,4,6-Tetrachlorophenol	µg/L	<10	<10
2-methyl-4,6-dinitrophenol	µg/L	<100	<100
Pentachlorophenol	µg/L	<100	<100
Surrogate 2-fluorophenol	%	83	61
Surrogate Phenol-d_6	%	56	34
Surrogate 2,4,6-Tribromophenol	%	110	102
Surrogate *p*-Terphenyl-d_{14}	%	122	114

Method ID	Methodology Summary
GC.14	Soil samples are extracted with methanol and spiked into water prior to analysing 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.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
GC.13	Water samples are analysed directly by purge and trap GC-MS.
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.22 ICP-MS	Determination of various metals by ICP-MS following leaching using neutralised deionised water by AS 4439.3 - 1997.
Metals.21 ASLP	Determination of Mercury by Cold Vapour AAS following neutral water leaching by AS 4439.3 - 1997.
GC.12 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			3/8/2010	44211-1	3/8/2010 || 3/8/2010	LCS-5	3/8/2010
Date analysed	-			5/8/2010	44211-1	5/8/2010 || 5/8/2010	LCS-5	5/8/2010
styrene	mg/kg	1	GC.14	<1.0	44211-1	<1.0 || <1.0	LCS-5	110%
Surrogate Dibromofluorometha	%		GC.14	69	44211-1	65 || 65 || RPD: 0	LCS-5	71%
Surrogate aaa-Trifluorotoluene	%		GC.14	106	44211-1	98 || 108 || RPD: 10	LCS-5	113%
Surrogate Toluene-d_8	%		GC.14	89	44211-1	90 || 89 || RPD: 1	LCS-5	89%
Surrogate 4-Bromofluorobenzene	%		GC.14	84	44211-1	85 || 84 || RPD: 1	LCS-5	83%

QUALITY CONTROL vTPH & BTEX in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			03/08/2010	44211-1	03/08/2010 || 03/08/2010	LCS-1	03/08/2010
Date analysed	-			05/08/2010	44211-1	05/08/2010 || 05/08/2010	LCS-1	05/08/2010
vTPH C_6 - C_9	mg/kg	25	GC.16	<25	44211-1	<25 || <25	LCS-1	115%
Benzene	mg/kg	0.5	GC.16	<0.5	44211-1	<0.5 || <0.5	LCS-1	72%
Toluene	mg/kg	0.5	GC.16	<0.5	44211-1	<0.5 || <0.5	LCS-1	105%
Ethylbenzene	mg/kg	1	GC.16	<1.0	44211-1	<1.0 || <1.0	LCS-1	126%
m+p-xylene	mg/kg	2	GC.16	<2.0	44211-1	<2.0 || <2.0	LCS-1	136%
o-Xylene	mg/kg	1	GC.16	<1.0	44211-1	<1.0 || <1.0	LCS-1	137%
Surrogate aaa-Trifluorotoluene	%		GC.16	106	44211-1	98 || 137 || RPD: 33	LCS-1	105%

QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			3/8/2010	44211-1	3/8/2010 || 3/8/2010	LCS-5	3/8/2010
Date analysed	-			3/8/2010	44211-1	3/8/2010 || 3/8/2010	LCS-5	3/8/2010
TPH C_{10} - C_{14}	mg/kg	50	GC.3	<50	44211-1	<50 || <50	LCS-5	76%
TPH C_{15} - C_{28}	mg/kg	100	GC.3	<100	44211-1	250 || 200 || RPD: 22	LCS-5	81%
TPH C_{29} - C_{36}	mg/kg	100	GC.3	<100	44211-1	110 || 130 || RPD: 17	LCS-5	80%
Surrogate o-Terphenyl	%		GC.3	127	44211-1	# || 134	LCS-5	113%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			3/8/2010	44211-1	3/8/2010 || 3/8/2010	LCS-5	3/8/2010
Date analysed	-			5/8/2010	44211-1	5/8/2010 || 5/8/2010	LCS-5	5/8/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	0.6 || 0.7 || RPD: 15	LCS-5	91%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	0.7 || 0.7 || RPD: 0	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	0.2 || 0.3 || RPD: 40	LCS-5	95%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	2.9 || 2.6 || RPD: 11	LCS-5	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	0.8 || 0.7 || RPD: 13	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	6.3 || 4.8 || RPD: 27	LCS-5	94%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	7.1 || 5.4 || RPD: 27	LCS-5	101%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	4.4 || 3.3 || RPD: 29	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	4.0 || 3.1 || RPD: 25	LCS-5	112%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	44211-1	6.0 || 5.1 || RPD: 16	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	44211-1	4.7 || 4.0 || RPD: 16	LCS-5	94%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	2.9 || 2.4 || RPD: 19	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	0.7 || 0.6 || RPD: 15	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	44211-1	2.7 || 2.4 || RPD: 12	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%		GC.12 subset	76	44211-1	81 || 77 || RPD: 5	LCS-5	102%

QUALITY CONTROL Speciated Phenols in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			06/08/2010	44211-1	06/08/2010 || 06/08/2010	LCS-5	06/08/2010
Date analysed	-			07/08/2010	44211-1	07/08/2010 || 07/08/2010	LCS-5	07/08/2010
Phenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	LCS-5	88%
2-Chlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	LCS-5	95%
2-Methylphenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
3/4-Methylphenol	mg/kg	2	GC.12	<2.0	44211-1	<2.0 || <2.0	[NR]	[NR]
2-Nitrophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,6-dichlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,4,5-trichlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2,4-dinitrophenol	mg/kg	10	GC.12	<10	44211-1	<10 || <10	[NR]	[NR]
4-nitrophenol	mg/kg	10	GC.12	<10	44211-1	<10 || <10	LCS-5	26%
2,3,4,6-tetrachlorophenol	mg/kg	1	GC.12	<1.0	44211-1	<1.0 || <1.0	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	10	GC.12	<10	44211-1	<10 || <10	[NR]	[NR]
pentachlorophenol	mg/kg	10	GC.12	<10	44211-1	<10 || <10	[NR]	[NR]
Surrogate 2-fluorophenol	%		GC.12	12	44211-1	# || #	LCS-5	61%
Surrogate Phenol-d_6	%		GC.12	27	44211-1	# || #	LCS-5	67%
Surrogate 2,4,6-Tribromophenol	%		GC.12	15	44211-1	# || #	LCS-5	19%
Surrogate p-Terphenyl-d_{14}	%		GC.12	76	44211-1	89 || 89 || RPD: 0	LCS-5	75%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date digested	-			03/08/2010	44211-1	03/08/2010 || 03/08/2010	LCS-1	03/08/2010
Date analysed	-			04/08/2010	44211-1	04/08/2010 || 04/08/2010	LCS-1	04/08/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	44211-1	26 || 39 || RPD: 40	LCS-1	104%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	44211-1	1 || 1.2 || RPD: 18	LCS-1	106%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	44211-1	29 || 20 || RPD: 37	LCS-1	102%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	44211-1	170 || 230 || RPD: 30	LCS-1	102%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	44211-1	0.4 || 0.5 || RPD: 22	LCS-1	105%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	44211-1	20 || 20 || RPD: 0	LCS-1	104%

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

QUALITY CONTROL VOCs in Zero Headspace ASLP	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			5/8/2010	[NT]	[NT]	LCS-W1	05/08/2010
Date analysed	-			5/8/2010	[NT]	[NT]	LCS-W1	05/08/2010
Styrene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	104%
Surrogate Dibromofluoromethane	%		GC.13	98	[NT]	[NT]	LCS-W1	106%
Surrogate toluene-d8	%		GC.13	104	[NT]	[NT]	LCS-W1	103%
Surrogate 4-BFB	%		GC.13	104	[NT]	[NT]	LCS-W1	102%

QUALITY CONTROL BTEX in Zero Headspace	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			5/8/2010	[NT]	[NT]	LCS-W1	5/8/2010
Date analysed	-			5/8/2010	[NT]	[NT]	LCS-W1	5/8/2010
Benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	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]
o-xylene	µg/L	1	GC.13	<1.0	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluoromethane	%		GC.13	98	[NT]	[NT]	LCS-W1	98%
Surrogate toluene-d8	%		GC.13	100	[NT]	[NT]	LCS-W1	100%
Surrogate 4-BFB	%		GC.13	104	[NT]	[NT]	LCS-W1	104%

QUALITY CONTROL Metals-ASLP Neutral (ICP-MS)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			[NT]	44211-1	04/08/2010 || 04/08/2010	LCS-W1	05/08/2010
Date analysed	-			05/08/2010	44211-1	05/08/2010 || 05/08/2010	[NR]	[NR]
Arsenic in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44211-1	2 || 2 || RPD: 0	LCS-W1	106%
Cadmium in ASLP	µg/L	0.1	Metals.22 ICP-MS	<0.1	44211-1	<0.1 || <0.1	LCS-W1	110%
Chromium in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44211-1	42 || 42 || RPD: 0	LCS-W1	102%
Lead in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44211-1	1 || 1 || RPD: 0	LCS-W1	106%
Mercury in ASLP	µg/L	0.5	Metals.21 ASLP	<0.50	44211-1	<0.50 || <0.50	LCS-W1	117%
Nickel in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44211-1	4 || 4 || RPD: 0	LCS-W1	98%

QUALITY CONTROL sTPH in water leach	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			4/8/2010	[NT]	[NT]	LCS-W1	4/8/2010
Date analysed	-			4/8/2010	[NT]	[NT]	LCS-W1	4/8/2010
TPH C_{10} - C_{14}	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W1	83%
TPH C_{15} - C_{28}	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	120%
TPH C_{29} - C_{36}	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W1	90%
Surrogate o-Terphenyl	%		GC.3	116	[NT]	[NT]	LCS-W1	112%

QUALITY CONTROL PAHs in water leach	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
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 ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	92%
Acenaphthylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	110%
Phenanthrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	109%
Anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	104%
Pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	114%
Benzo(a)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	106%
Benzo(b+k)fluoranthene in ASLP	mg/L	0.002	GC.12 ASLP	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	LCS-W1	113%
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in ASLP	mg/L	0.001	GC.12 ASLP	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%		GC.12	122	[NT]	[NT]	LCS-W1	105%

QUALITY CONTROL Speciated Phenols in water	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			4/8/2010	[NT]	[NT]	LCS-W1	4/8/2010
Date analysed	-			5/8/2010	[NT]	[NT]	LCS-W1	5/8/2010
Phenol	µg/L	10	GC.12	<10	[NT]	[NT]	LCS-W1	27%
2-Chlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	LCS-W1	84%
2-Methylphenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
3/4-Methylphenol	µg/L	20	GC.12	<20	[NT]	[NT]	[NR]	[NR]
2-Nitrophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,4-Dimethylphenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,4-Dichlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,6-Dichlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,4,5-Trichlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,4,6-Trichlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2,4-Dinitrophenol	µg/L	100	GC.12	<100	[NT]	[NT]	[NR]	[NR]
4-Nitrophenol	µg/L	100	GC.12	<100	[NT]	[NT]	LCS-W1	28%
2,3,4,6-Tetrachlorophenol	µg/L	10	GC.12	<10	[NT]	[NT]	[NR]	[NR]
2-methyl-4,6-dinitrophenol	µg/L	100	GC.12	<100	[NT]	[NT]	[NR]	[NR]
Pentachlorophenol	µg/L	100	GC.12	<100	[NT]	[NT]	[NR]	[NR]
Surrogate 2-fluorophenol	%		GC.12	60	[NT]	[NT]	LCS-W1	57%
Surrogate Phenol-d_6	%		GC.12	31	[NT]	[NT]	LCS-W1	30%
Surrogate 2,4,6-Tribromophenol	%		GC.12	124	[NT]	[NT]	LCS-W1	120%
Surrogate p-Terphenyl-d_{14}	%		GC.12	127	[NT]	[NT]	LCS-W1	119%

QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43953-2	03/08/2010
Date analysed	-	[NT]	[NT]	43953-2	05/08/2010
vTPH C_6 - C_9	mg/kg	[NT]	[NT]	43953-2	96%
Benzene	mg/kg	[NT]	[NT]	43953-2	60%
Toluene	mg/kg	[NT]	[NT]	43953-2	87%
Ethylbenzene	mg/kg	[NT]	[NT]	43953-2	103%
m+p-xylene	mg/kg	[NT]	[NT]	43953-2	114%
o-Xylene	mg/kg	[NT]	[NT]	43953-2	113%
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	43953-2	91%

QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43953-2	3/8/2010
Date analysed	-	[NT]	[NT]	43953-2	3/8/2010
TPH C_{10} - C_{14}	mg/kg	[NT]	[NT]	43953-2	80%
TPH C_{15} - C_{28}	mg/kg	[NT]	[NT]	43953-2	139%
TPH C_{29} - C_{36}	mg/kg	[NT]	[NT]	43953-2	99%
Surrogate o-Terphenyl	%	[NT]	[NT]	43953-2	131%

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	43953-2	3/8/2010
Date analysed	-	[NT]	[NT]	43953-2	5/8/2010
Naphthalene	mg/kg	[NT]	[NT]	43953-2	90%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	43953-2	101%
Phenanthrene	mg/kg	[NT]	[NT]	43953-2	77%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	43953-2	68%
Pyrene	mg/kg	[NT]	[NT]	43953-2	70%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	43953-2	79%
Benzo(b+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	43953-2	91%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%	[NT]	[NT]	43953-2	76%

QUALITY CONTROL Speciated Phenols in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	44211-2	06/08/2010
Date analysed	-	[NT]	[NT]	44211-2	07/08/2010
Phenol	mg/kg	[NT]	[NT]	44211-2	32%
2-Chlorophenol	mg/kg	[NT]	[NT]	44211-2	#
2-Methylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
3/4-Methylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-Nitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,6-dichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4,5-trichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2,4-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
4-nitrophenol	mg/kg	[NT]	[NT]	44211-2	13%
2,3,4,6-tetrachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
pentachlorophenol	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate 2-fluorophenol	%	[NT]	[NT]	44211-2	#
Surrogate Phenol-d_6	%	[NT]	[NT]	44211-2	#
Surrogate 2,4,6-Tribromophenol	%	[NT]	[NT]	44211-2	#
Surrogate p-Terphenyl-d_{14}	%	[NT]	[NT]	44211-2	84%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	[NT]	[NT]	43953-2	03/08/2010
Date analysed	-	[NT]	[NT]	43953-2	04/08/2010
Arsenic	mg/kg	[NT]	[NT]	43953-2	99%
Cadmium	mg/kg	[NT]	[NT]	43953-2	88%
Chromium	mg/kg	[NT]	[NT]	43953-2	88%
Lead	mg/kg	[NT]	[NT]	43953-2	112%
Mercury	mg/kg	[NT]	[NT]	43953-2	108%
Nickel	mg/kg	[NT]	[NT]	43953-2	89%

QUALITY CONTROL Metals-ASLP Neutral (ICP-MS)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	44211-2	05/08/2010
Date analysed	-	[NT]	[NT]	[NR]	[NR]
Arsenic in ASLP	µg/L	[NT]	[NT]	44211-2	106%
Cadmium in ASLP	µg/L	[NT]	[NT]	44211-2	108%
Chromium in ASLP	µg/L	[NT]	[NT]	44211-2	102%
Lead in ASLP	µg/L	[NT]	[NT]	44211-2	102%
Mercury in ASLP	µg/L	[NT]	[NT]	44211-2	106%
Nickel in ASLP	µg/L	[NT]	[NT]	44211-2	96%

Report Comments:

Total Petroleum Hydrocarbons in water:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Total Petroleum Hydrocarbons in soil:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

PAH's in soil:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference and The RPD for duplicate results is accepted due to the non homogenous nature of the sample/s.

Total Petroleum Hydrocarbons in soil:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Phenols in soil:# Percent recovery is not possible to report due to interference from analytes (other than those being tested) in the sample/s.
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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CERTIFICATE OF ANALYSIS 44271

Client:
Enviropacific Services (Chatswood) Pty Ltd
1/28 Barcoo St
Chatswood
NSW 2067

Attention: Marty Croker

Sample log in details:

Your Reference:	**E10100 Macdonaldtown Gasworks**
No. of samples:	3 Soils
Date samples received:	04/08/10
Date completed instructions received:	04/08/10

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:	11/08/10
Date of Preliminary Report:	Not issued
Issue Date:	11/08/10

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Tests not covered by NATA are denoted with *.

Results Approved By:

Giovanni Agosti
Technical Manager

Sandra Taylor
Senior Organic Chemist

Rhian Morgan
Metals Supervisor

Jacinta Hurst
Laboratory Manager

Nancy Zhang
Chemist

VOCs in soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44271-1 Material 2 Post 5% 4/08/2010 Soil	44271-2 Material 2 Post 12.5% 4/08/2010 Soil	44271-3 Material 2 Post 20% 4/08/2010 Soil
Date extracted	-	9/8/2010	9/8/2010	9/8/2010
Date analysed	-	10/8/2010	10/8/2010	10/8/2010
styrene	mg/kg	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	96	87	87
Surrogate aaa-Trifluorotoluene	%	70	71	72
Surrogate Toluene-d_8	%	95	102	104
Surrogate 4-Bromofluorobenzene	%	101	96	96

vTPH & BTEX in Soil				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	9/8/2010	9/8/2010	9/8/2010
Date analysed	-	10/8/2010	10/8/2010	10/8/2010
vTPH C_6 - C_9	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	2.8	1.4	<1.0
m+p-xylene	mg/kg	2.4	<2.0	<2.0
o-Xylene	mg/kg	2.3	1.2	<1.0
Surrogate aaa-Trifluorotoluene	%	70	71	72

sTPH in Soil (C10-C36)				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	9/8/2010	9/8/2010	9/8/2010
Date analysed	-	9/8/2010	9/8/2010	9/8/2010
TPH C_{10} - C_{14}	mg/kg	470	240	210
TPH C_{15} - C_{28}	mg/kg	340	210	210
TPH C_{29} - C_{36}	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	#	#	#

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44271-1 Material 2 Post 5% 4/08/2010 Soil	44271-2 Material 2 Post 12.5% 4/08/2010 Soil	44271-3 Material 2 Post 20% 4/08/2010 Soil
Date extracted	-	9/8/2010	9/8/2010	9/8/2010
Date analysed	-	10/8/2010	10/8/2010	10/8/2010
Naphthalene	mg/kg	120	74	60
Acenaphthylene	mg/kg	3.2	2.5	2.4
Acenaphthene	mg/kg	6.9	5.5	5.1
Fluorene	mg/kg	6.2	5.0	4.7
Phenanthrene	mg/kg	12	9.5	9.2
Anthracene	mg/kg	3.2	2.7	2.5
Fluoranthene	mg/kg	5.2	4.2	4.2
Pyrene	mg/kg	6.3	5.2	4.9
Benzo(a)anthracene	mg/kg	2.2	1.8	1.8
Chrysene	mg/kg	2.1	1.7	1.7
Benzo(b+k)fluoranthene	mg/kg	0.7	1.8	1.9
Benzo(a)pyrene	mg/kg	2.0	1.6	1.6
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	0.5	0.4
Dibenzo(a,h)anthracene	mg/kg	0.2	0.1	0.1
Benzo(g,h,i)perylene	mg/kg	0.6	0.5	0.5
Surrogate p-Terphenyl-d_{14}	%	95	97	99

Speciated Phenols in Soil				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	10/08/2010	10/08/2010	10/08/2010
Date analysed	-	11/08/2010	11/08/2010	11/08/2010
Phenol	mg/kg	<1.0	<1.0	<1.0
2-Chlorophenol	mg/kg	<1.0	<1.0	<1.0
2-Methylphenol	mg/kg	<1.0	<1.0	<1.0
3/4-Methylphenol	mg/kg	<2.0	<2.0	<2.0
2-Nitrophenol	mg/kg	<1.0	<1.0	<1.0
2,4-Dimethylphenol	mg/kg	<1.0	<1.0	<1.0
2,4-Dichlorophenol	mg/kg	<1.0	<1.0	<1.0
2,6-dichlorophenol	mg/kg	<1.0	<1.0	<1.0
2,4,5-trichlorophenol	mg/kg	<1.0	<1.0	<1.0
2,4,6-trichlorophenol	mg/kg	<1.0	<1.0	<1.0
2,4-dinitrophenol	mg/kg	<10	<10	<10
4-nitrophenol	mg/kg	<10	<10	<10
2,3,4,6-tetrachlorophenol	mg/kg	<1.0	<1.0	<1.0
2-methyl-4,6-dinitrophenol	mg/kg	<10	<10	<10
pentachlorophenol	mg/kg	<10	<10	<10
Surrogate 2-fluorophenol	%	64	#	#
Surrogate Phenol-d_6	%	77	56	43
Surrogate 2,4,6-Tribromophenol	%	#	#	#
Surrogate p-Terphenyl-d_{14}	%	107	102	102

Acid Extractable metals in soil				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date digested	-	09/08/2010	09/08/2010	09/08/2010
Date analysed	-	10/08/2010	10/08/2010	10/08/2010
Arsenic	mg/kg	4	<4	5
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	15	16	21
Lead	mg/kg	24	26	23
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	3	4	5

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44271-1 Material 2 Post 5% 4/08/2010 Soil	44271-2 Material 2 Post 12.5% 4/08/2010 Soil	44271-3 Material 2 Post 20% 4/08/2010 Soil
Date prepared	-	9/8/2010	9/8/2010	9/8/2010
Date analysed	-	9/8/2010	9/8/2010	9/8/2010
Moisture	%	14	13	12

VOCs in Zero Headspace ASLP				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	10/8/2010	10/8/2010	10/8/2010
Date analysed	-	10/8/2010	10/8/2010	10/8/2010
Styrene	µg/L	2.1	2.0	1.7
Surrogate Dibromofluoromethane	%	91	89	87
Surrogate toluene-d8	%	95	109	107
Surrogate 4-BFB	%	113	115	106

BTEX in Zero Headspace				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	10/8/2010	10/8/2010	10/8/2010
Date analysed	-	10/8/2010	10/8/2010	10/8/2010
Benzene	µg/L	<1.0	<1.0	<1.0
Toluene	µg/L	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	70	44	30
m+p-xylene	µg/L	62	41	26
o-xylene	µg/L	59	39	26
Surrogate Dibromofluoromethane	%	91	89	87
Surrogate toluene-d8	%	95	109	107
Surrogate 4-BFB	%	113	115	106

Metals-ASLP Neutral (ICP-MS)				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	11/08/2010	11/08/2010	11/08/2010
Date analysed	-	11/08/2010	11/08/2010	11/08/2010
pH of final Leachate	pH units	11.6	12.2	12.5
Arsenic in ASLP	µg/L	8	7	6
Cadmium in ASLP	µg/L	<0.1	<0.1	0.1
Chromium in ASLP	µg/L	7	26	38
Lead in ASLP	µg/L	<1	<1	<1
Mercury in ASLP	µg/L	<0.50	<0.50	<0.50
Nickel in ASLP	µg/L	2	4	5

sTPH in water leach				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	5/8/2010	5/8/2010	5/8/2010
Date analysed	-	5/8/2010	5/8/2010	5/8/2010
TPH C_{10} - C_{14}	µg/L	5,600	4,500	3,700
TPH C_{15} - C_{28}	µg/L	1,100	1,200	1,200
TPH C_{29} - C_{36}	µg/L	<100	<100	<100
Surrogate o-Terphenyl	%	#	#	#

PAHs in water leach Our Reference: Your Reference Date Sampled Type of sample	UNITS ------------- ------------	44271-1 Material 2 Post 5% 4/08/2010 Soil	44271-2 Material 2 Post 12.5% 4/08/2010 Soil	44271-3 Material 2 Post 20% 4/08/2010 Soil
Date extracted	-	05/08/2010	05/08/2010	05/08/2010
Date analysed	-	06/08/2010	06/08/2010	06/08/2010
Naphthalene in ASLP	mg/L	2.4	1.7	1.3
Acenaphthylene in ASLP	mg/L	0.024	0.026	0.028
Acenaphthene in ASLP	mg/L	0.054	0.059	0.064
Fluorene in ASLP	mg/L	0.036	0.037	0.042
Phenanthrene in ASLP	mg/L	0.026	0.029	0.034
Anthracene in ASLP	mg/L	0.005	0.006	0.007
Fluoranthene in ASLP	mg/L	0.003	0.003	0.004
Pyrene in ASLP	mg/L	0.002	0.003	0.004
Benzo(a)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001
Chrysene in ASLP	mg/L	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in ASLP	mg/L	<0.002	<0.002	<0.002
Benzo(a)pyrene in ASLP	mg/L	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - ASLP	mg/L	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in ASLP	mg/L	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in ASLP	mg/L	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d_{14}	%	85	87	98

Speciated Phenols in water				
Our Reference:	UNITS	44271-1	44271-2	44271-3
Your Reference	-------------	Material 2 Post 5%	Material 2 Post 12.5%	Material 2 Post 20%
Date Sampled	------------	4/08/2010	4/08/2010	4/08/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	05/08/2010	05/08/2010	05/08/2010
Date analysed	-	05/08/2010	05/08/2010	05/08/2010
Phenol	µg/L	<10	<10	<10
2-Chlorophenol	µg/L	<10	<10	<10
2-Methylphenol	µg/L	<10	<10	<10
3/4-Methylphenol	µg/L	<20	<20	<20
2-Nitrophenol	µg/L	<10	<10	<10
2,4-Dimethylphenol	µg/L	<10	<10	<10
2,4-Dichlorophenol	µg/L	<10	<10	<10
2,6-Dichlorophenol	µg/L	<10	<10	<10
2,4,5-Trichlorophenol	µg/L	<10	<10	<10
2,4,6-Trichlorophenol	µg/L	<10	<10	<10
2,4-Dinitrophenol	µg/L	<100	<100	<100
4-Nitrophenol	µg/L	<100	<100	<100
2,3,4,6-Tetrachlorophenol	µg/L	<10	<10	<10
2-methyl-4,6-dinitrophenol	µg/L	<100	<100	<100
Pentachlorophenol	µg/L	<100	<100	<100
Surrogate 2-fluorophenol	%	65	62	62
Surrogate Phenol-d_6	%	41	42	42
Surrogate 2,4,6-Tribromophenol	%	117	110	129
Surrogate *p*-Terphenyl-d_{14}	%	120	98	132

Method ID	Methodology Summary
GC.14	Soil samples are extracted with methanol and spiked into water prior to analysing 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.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
GC.13	Water samples are analysed directly by purge and trap GC-MS.
LAB.1	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
Metals.22 ICP-MS	Determination of various metals by ICP-MS following leaching using neutralised deionised water by AS 4439.3 - 1997.
Metals.21 ASLP	Determination of Mercury by Cold Vapour AAS following neutral water leaching by AS 4439.3 - 1997.
GC.12 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			9/8/2010	[NT]	[NT]	LCS-5	9/8/2010
Date analysed	-			10/8/2010	[NT]	[NT]	LCS-5	10/8/2010
styrene	mg/kg	1	GC.14	<1.0	[NT]	[NT]	LCS-5	104%
Surrogate Dibromofluorometha	%		GC.14	96	[NT]	[NT]	LCS-5	86%
Surrogate aaa-Trifluorotoluene	%		GC.14	72	[NT]	[NT]	LCS-5	76%
Surrogate Toluene-d_8	%		GC.14	93	[NT]	[NT]	LCS-5	94%
Surrogate 4-Bromofluorobenzene	%		GC.14	79	[NT]	[NT]	LCS-5	82%

QUALITY CONTROL vTPH & BTEX in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			9/8/2010	[NT]	[NT]	LCS-5	9/8/2010
Date analysed	-			10/8/2010	[NT]	[NT]	LCS-5	10/8/2010
vTPH C_6 - C_9	mg/kg	25	GC.16	<25	[NT]	[NT]	LCS-5	87%
Benzene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-5	72%
Toluene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-5	81%
Ethylbenzene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-5	88%
m+p-xylene	mg/kg	2	GC.16	<2.0	[NT]	[NT]	LCS-5	97%
o-Xylene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-5	98%
Surrogate aaa-Trifluorotoluene	%		GC.16	72	[NT]	[NT]	LCS-5	114%

QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			9/8/2010	[NT]	[NT]	LCS-6	9/8/2010
Date analysed	-			9/8/2010	[NT]	[NT]	LCS-6	9/8/2010
TPH C_{10} - C_{14}	mg/kg	50	GC.3	<50	[NT]	[NT]	LCS-6	80%
TPH C_{15} - C_{28}	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-6	88%
TPH C_{29} - C_{36}	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-6	85%
Surrogate o-Terphenyl	%		GC.3	94	[NT]	[NT]	LCS-6	105%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			9/8/2010	[NT]	[NT]	LCS-6	9/8/2010
Date analysed	-			10/8/2010	[NT]	[NT]	LCS-6	10/8/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-6	102%
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-6	94%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-6	103%
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-6	94%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-6	96%
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-6	105%
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-6	111%
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-d_{14}	%		GC.12 subset	76	[NT]	[NT]	LCS-6	126%

QUALITY CONTROL Speciated Phenols in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			10/08/2010	44271-1	10/08/2010 || 10/08/2010	LCS-6	10/08/2010
Date analysed	-			11/08/2010	44271-1	11/08/2010 || 11/08/2010	LCS-6	11/08/2010
Phenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	LCS-6	98%
2-Chlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	LCS-6	95%
2-Methylphenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
3/4-Methylphenol	mg/kg	2	GC.12	<2.0	44271-1	<2.0 || <2.0	[NR]	[NR]
2-Nitrophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,4-Dimethylphenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,4-Dichlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,6-dichlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,4,5-trichlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,4,6-trichlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2,4-dinitrophenol	mg/kg	10	GC.12	<10	44271-1	<10 || <10	[NR]	[NR]
4-nitrophenol	mg/kg	10	GC.12	<10	44271-1	<10 || <10	LCS-6	72%
2,3,4,6-tetrachlorophenol	mg/kg	1	GC.12	<1.0	44271-1	<1.0 || <1.0	[NR]	[NR]
2-methyl-4,6-dinitrophenol	mg/kg	10	GC.12	<10	44271-1	<10 || <10	[NR]	[NR]
pentachlorophenol	mg/kg	10	GC.12	<10	44271-1	<10 || <10	[NR]	[NR]
Surrogate 2-fluorophenol	%		GC.12	96	44271-1	64 || 68 || RPD: 6	LCS-6	65%
Surrogate Phenol-d_6	%		GC.12	96	44271-1	77 || 79 || RPD: 3	LCS-6	72%
Surrogate 2,4,6-Tribromophenol	%		GC.12	60	44271-1	# || #	LCS-6	46%
Surrogate p-Terphenyl-d_{14}	%		GC.12	91	44271-1	107 || 103 || RPD: 4	LCS-6	84%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date digested	-			09/08/2010	[NT]	[NT]	LCS-2	09/08/2010
Date analysed	-			10/08/2010	[NT]	[NT]	LCS-2	10/08/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	[NT]	[NT]	LCS-2	102%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	[NT]	[NT]	LCS-2	104%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	105%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	103%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	[NT]	[NT]	LCS-2	99%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-2	105%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			9/8/2010
Date analysed	-			9/8/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL VOCs in Zero Headspace ASLP	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			10/8/2010	[NT]	[NT]	LCS-W1	10/8/2010
Date analysed	-			10/8/2010	[NT]	[NT]	LCS-W1	10/8/2010
Styrene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	99%
Surrogate Dibromofluoromethane	%		GC.13	96	[NT]	[NT]	LCS-W1	92%
Surrogate toluene-d8	%		GC.13	93	[NT]	[NT]	LCS-W1	102%
Surrogate 4-BFB	%		GC.13	79	[NT]	[NT]	LCS-W1	101%

QUALITY CONTROL BTEX in Zero Headspace	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			10/8/2010	[NT]	[NT]	LCS-W1	10/8/2010
Date analysed	-			10/8/2010	[NT]	[NT]	LCS-W1	10/8/2010
Benzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	86%
Toluene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	100%
Ethylbenzene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	106%
m+p-xylene	µg/L	2	GC.13	<2.0	[NT]	[NT]	LCS-W1	110%
o-xylene	µg/L	1	GC.13	<1.0	[NT]	[NT]	LCS-W1	118%
Surrogate Dibromofluoromethane	%		GC.13	96	[NT]	[NT]	LCS-W1	86%
Surrogate toluene-d8	%		GC.13	93	[NT]	[NT]	LCS-W1	101%
Surrogate 4-BFB	%		GC.13	79	[NT]	[NT]	LCS-W1	106%

QUALITY CONTROL Metals-ASLP Neutral (ICP-MS)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			11/08/2010	44271-1	11/08/2010 || 11/08/2010	LCS-W1	11/08/2010
Date analysed	-			11/08/2010	44271-1	11/08/2010 || 11/08/2010	LCS-W1	11/08/2010
Arsenic in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44271-1	8 || 8 || RPD: 0	LCS-W1	106%
Cadmium in ASLP	µg/L	0.1	Metals.22 ICP-MS	<0.1	44271-1	<0.1 || <0.1	LCS-W1	108%
Chromium in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44271-1	7 || 7 || RPD: 0	LCS-W1	88%
Lead in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44271-1	<1 || <1	LCS-W1	117%
Mercury in ASLP	µg/L	0.5	Metals.21 ASLP	<0.50	44271-1	<0.50 || <0.50	LCS-W1	116%
Nickel in ASLP	µg/L	1	Metals.22 ICP-MS	<1	44271-1	2 || 2 || RPD: 0	LCS-W1	86%