APPENDIX H Summary Analytical Results

WSP Environmental Pty Ltd

Table 2: Summary Soil Results

			Asbestos	Heavy Metals								PAHs																BTEX						TPH C6-C36				
			Asbestos	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(e) pyrene	Benzo(b)&(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Total Xylene	TPH C6 - C9	TPH C10 - C14	TPH C15 - C28	TPH C29-C36	TPH+C10 - C36 (Sum of total)
			g/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	4	0.5	1	1	1	0.1	1	1	0.1	0.1	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	0.5	2	1	3	25	50	100	100	
NSW EPA (1994) Service Station Guidelines								300																			1	50	130			25	65				1000
NEPM (1999) Ecological Investigation Levels (EILs)				20	3		100	600	1	60	200																										
NEPM (1999) Residential Health Investigation Levels (HIL 'D')				400	80		4000	1200	60	2400	28000					4																					
NEPM (1999) Commercial/Industrial Health Investigation Levels (HIL 'F')				500	100		5000	1500	75	3000	35000					5																					
Field_ID	**Sample Depth**	**Sampled Date**																																				
BH1	4	1/27/2011	<0.1	5	<0.5	10	11	17	<0.1	3	15	<0.1	<0.1	<0.1	0.3	0.4	0.6	0.2	0.4	<0.1	0.7	<0.1	0.2	<0.1	0.5	0.7	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH10	0.6	1/28/2011	<0.1	11	<0.5	15	25	29	<0.1	8	37	<0.1	<0.1	<0.1	0.2	0.3	0.4	0.1	0.2	<0.1	0.2	<0.1	0.1	<0.1	<0.1	0.2	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH2	0.5	1/27/2011	<0.1	<4	<0.5	13	12	15	<0.1	4	6	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH3	0.5	1/27/2011	<0.1	7	<0.5	26	28	190	<0.1	8	26	<0.1	<0.1	<0.1	0.2	0.2	0.3	0.1	0.2	<0.1	0.3	<0.1	0.1	<0.1	0.1	0.3	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH4	1.2	1/27/2011	<0.1	7	<0.5	19	500	240	0.6	16	420	<0.1	<0.1	<0.1	0.5	0.6	0.9	0.3	0.5	<0.1	0.9	<0.1	0.3	<0.1	0.4	0.9	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH5	0.3	1/27/2011	<0.1	<4	<0.5	7	4	10	<0.1	2	3	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH6	1	1/28/2011	<0.1	<4	<0.5	21	33	26	<0.1	44	120	<0.1	<0.1	<0.1	0.1	0.2	0.3	0.2	0.2	<0.1	0.2	<0.1	0.2	0.1	0.4	0.2	<0.5	<1	<0.5	<2	<1	<3	<25	<50	370	680	1075
BH7	1	1/28/2011	<0.1	<4	<0.5	14	9	12	<0.1	4	6	<0.1	<0.1	<0.1	<0.1	0.1	<0.2	<0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.2	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH8	0.3	1/28/2011	<0.1	7	<0.5	21	29	52	<0.1	9	36	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
BH9	0.5	1/28/2011	<0.1	19	0.5	11	35	28	<0.1	12	77	0.4	<0.1	0.2	0.4	0.7	1	0.4	0.5	<0.1	1.2	<0.1	0.4	<0.1	<0.1	1.4	<0.5	<1	<0.5	<2	<1	<3	<25	<50	450	180	699
Dup1		1/27/2011	<0.1	9	<0.5	21	450	41	<0.1	9	79	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
Statistical Summary																																						
Number of Results				11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Number of Detects				7	1	11	11	11	1	11	11	1	0	1	6	7	6	6	7	0	7	0	6	1	5	7	0	0	0	0	0	0	0	1	2	2	2
Minimum Concentration				<4	<0.5	7	4	10	<0.1	2	3	<0.1	<0.1	<0.1	<0.1	<0.05	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<1	<0.5	<2	<1	<3	<25	<50	<100	<100	<250
Minimum Detect				5	0.5	7	4	10	0.6	2	3	0.4	ND	0.2	0.1	0.1	0.3	0.1	0.1	ND	0.2	ND	0.1	0.1	0.1	0.2	ND	ND	ND	ND	ND	ND	ND	69	370	180	699
Maximum Concentration				19	0.5	26	500	240	0.6	44	420	0.4	<0.1	0.2	0.5	0.7	1	0.4	0.5	<0.1	1.2	<0.1	0.4	0.1	0.5	1.4	<0.5	<1	<0.5	<2	<1	<3	<25	69	450	680	1075
Maximum Detect				19	0.5	26	500	240	0.6	44	420	0.4	ND	0.2	0.5	0.7	1	0.4	0.5	ND	1.2	ND	0.4	0.1	0.5	1.4	ND	ND	ND	ND	ND	ND	ND	69	450	680	1075
Average Concentration				6.6	0.27	16	74	60	0.1	11	75	0.082	0.05	0.064	0.18	0.24	0.36	0.14	0.21	0.05	0.35	0.05	0.14	0.055	0.16	0.37	0.25	0.5	0.25	1	0.5	1.5	13	29	115	119	264
Median Concentration				7	0.25	15	28	28	0.05	8	36	0.05	0.05	0.05	0.1	0.2	0.3	0.1	0.2	0.05	0.2	0.05	0.1	0.05	0.05	0.2	0.25	0.5	0.25	1	0.5	1.5	12.5	25	50	50	125
Standard Deviation				5.2	0.075	5.8	145	78	0.17	12	120	0.11	0	0.045	0.16	0.24	0.33	0.12	0.18	0	0.4	0	0.12	0.015	0.18	0.44	0	0	0	0	0	0	0	13	147	190	320
Number of Guideline Exceedances				0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Number of Guideline Exceedances(Detects Only)				0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

			VOCs																																			
			1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichlorobenzene	1,2,3-trichloropropane	1,2,4-trichlorobenzene	1,2,4-trimethylbenzene	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichlorobenzene	1,2-dichloroethane	1,2-dichloropropane	1,3,5-trimethylbenzene	1,3-dichlorobenzene	1,3-dichloropropane	1,4-dichlorobenzene	2,2-dichloropropane	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSW EPA (1994) Service Station Guidelines																																						
NEPM (1999) Ecological Investigation Levels (EILs)																																						
NEPM (1999) Residential Health Investigation Levels (HIL 'D')																																						
NEPM (1999) Commercial/Industrial Health Investigation Levels (HIL 'F')																																						
Field_ID	**Sample Depth**	**Sampled Date**																																				
BH1	4	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH10	0.6	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH2	0.5	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH3	0.5	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH4	1.2	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH5	0.3	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH6	1	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH7	1	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH8	0.3	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH9	0.5	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dup1		27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Statistical Summary																																						
Number of Results			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Median Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

			VOCs																			
			cis-1,2-dichloroethene	cis-1,3-dichloropropene	Cyclohexane	Dibromomethane	Dichlorodifluoromethane	Hexachlorobutadiene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	Trichloroethene	tert-butylbenzene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichlorofluoromethane	Vinyl chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSW EPA (1994) Service Station Guidelines																					
NEPM (1999) Ecological Investigation Levels (EILs)																					
NEPM (1999) Residential Health Investigation Levels (HIL 'D')																					
NEPM (1999) Commercial/Industrial Health Investigation Levels (HIL 'F')																					
Field_ID	**Sample Depth**	**Sampled Date**																			
BH1	4	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH10	0.6	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH2	0.5	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH3	0.5	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH4	1.2	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH5	0.3	27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH6	1	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH7	1	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH8	0.3	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BH9	0.5	28/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dup1		27/01/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Statistical Summary																					
Number of Results			11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Median Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3: Summary Water Results

VOCs

Field_ID	LocCode	Sampled_Date-Time	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichlorobenzene	1,2,3-trichloropropane	1,2,4-trichlorobenzene	1,2,4-trimethylbenzene	1,2-dibromo-3-chloropropane	1,2-dibromoethane	1,2-dichlorobenzene	1,2-dichloroethane	1,2-dichloropropane	1,3,5-trimethylbenzene	1,3-dichlorobenzene
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANZECC (2000) Protection of 95% Marine Water Ecosystems						1900						20								
Dutch (2000) Groundwater Intervention Screening Levels				300		130	900	10									400			
EPA (1994) Marine Ecosystems																				
Dup1	GW2	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GW1	GW1	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GW2	GW2	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GW3	GW3	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Rinsate	Rinsate	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trip Blank	Trip Blank	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Statistical Summary																				
Number of Results			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Median Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Field_ID	LocCode	Sampled_Date-Time	1,3-dichloropropane	1,4-dichlorobenzene	2,2-dichloropropane	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			1	1	1	1	1	1	1	1	1	10	1	1	1	10	1	10	1	1
ANZECC (2000) Protection of 95% Marine Water Ecosystems																				
Dutch (2000) Groundwater Intervention Screening Levels											630		10	180			400		20	
EPA (1994) Marine Ecosystems																				
Dup1	GW2	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	<1	<1
GW1	GW1	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	<1	<1
GW2	GW2	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	<1	<1
GW3	GW3	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	34	<1
Rinsate	Rinsate	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	1.5	<10	<1	<1
Trip Blank	Trip Blank	4/02/2011	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	<1	<1
Statistical Summary																				
Number of Results			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Minimum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	<1	<10	<1	<1
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	34	ND
Maximum Concentration			<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<10	1.5	<10	34	<1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	34	ND
Average Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.67	5	6.1	0.5
Median Concentration			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.5	5	0.5	0.5
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.41	0	14	0
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0

Table 3: Summary Water Results

			VOCs																			Heavy Metals								BTEX						TPH C6-C36				
			Cyclohexane	Dibromomethane	Dichlorodifluoromethane	Hexachlorobutadiene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	Trichloroethene	tert-butylbenzene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichlorofluoromethane	Vinyl chloride	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	Benzene	Ethylbenzene	Toluene	Xylene (m & p)	Xylene (o)	Total Xylene	TPH C6 - C9	TPH C10 - C14	TPH C15 - C28	TPH C29-C36	TPH C10-C36 (Sum of Total)
			mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.001	1	10	1	1	1	1	1	1	1	1	1	1	1	1	10	10	1	0.1	1	1	1	0.4	1	1	1	1	1	2	1	-	10	50	100	100	-
ANZECC (2000) Protection of 95% Marine Water Ecosystems																					0.7	4.4	1.3	4.4	0.1	7	15	500												
Dutch (2000) Groundwater Intervention Screening Levels												300	500		40				5	60	6	30	75	75	0.3	75	800	30	150	1000			70					600
EPA (1994) Marine Ecosystems																				300				5				300					380						
Field_ID	**LocCode**	**Sampled_Date-Time**																																						
Dup1	GW2	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.1	<1	<1	1	<0.4	<1	2	<1	<1	<1	<2	<1	<3	<10	<50	<100	<100	<250
GW1	GW1	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.1	<1	<1	<1	<0.4	<1	<1	<1	<1	<1	<2	<1	<3	<10	<50	<100	<100	<250
GW2	GW2	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.1	<1	<1	<1	<0.4	<1	2	<1	<1	<1	<2	<1	<3	<10	<50	<100	<100	<250
GW3	GW3	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	1.9	<1	<1	<1	<1	<10	16	14	1.3	3	<1	7	<0.4	41	47	<1	<1	<1	<2	<1	<3	15	<50	<100	<100	<250
Rinsate	Rinsate	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.1	<1	<1	<1	<0.4	<1	1	<1	<1	<1	<2	<1	<3	<10	<50	<100	<100	<250
Trip Blank	Trip Blank	4/02/2011	<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	-	-	-	-	-	-	-	-	<1	<1	<1	<2	<1	<3	<10	-	-	-	-
Statistical Summary																																							
Number of Results			6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	5	5	5	6
Number of Detects			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	2	0	1	4	0	0	0	0	0	0	1	0	0	0	1
Minimum Concentration			<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<1	<0.1	<1	<1	<1	<0.4	<1	<1	<1	<1	<1	<2	<1	<3	<10	<50	<100	<100	<250
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	16	14	1.3	3	ND	1	ND	41	1	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND
Maximum Concentration			<0.001	<1	<10	<1	<1	<1	<1	<1	<1	<1	1.9	<1	<1	<1	<1	<10	16	14	1.3	3	<1	7	<0.4	41	47	<1	<1	<1	<2	<1	<3	15	<50	<100	<100	<250
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	16	14	1.3	3	ND	7	ND	41	47	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND
Average Concentration			0	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.73	0.5	0.5	0.5	0.5	5	6.8	3.2	0.3	1	0.5	1.9	0.2	8.6	11	0.5	0.5	0.5	1	0.5	1.5	6.7	25	50	50	125
Median Concentration			0	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5	0.05	0.5	0.5	0.5	0.2	0.5	2	0.5	0.5	0.5	1	0.5	1.5	5	25	50	50	125
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0.57	0	0	0	0	0	4.5	6	0.56	1.1	0	2.9	0	18	20	0	0	0	0	0	0	4.1	0	0	0	0
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	1	1	1	0	2	5	1	4	0	0	0	0	0	0	1	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	2	0	1	4	0	0	0	0	0	0	1	0	0	0	0

Table 4: RPD Soil Result Summary

Field Duplicates (soil) Filter: ALL			SDG Field_ID Sampled_Date-Time	51151 BH4 27/01/2011	51151 Dup1 27/01/2011	RPD	51151 BH4 27/01/2011	Interlab_D TRIP1 27/01/2011	RPD
Method_Type	**ChemName**	**Units**	**EQL**						
Heavy Metals	Arsenic	mg/kg	4 (Primary): 2 (Interlab)	7.0	9.0	25	7.0	7.0	0
	Cadmium	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Chromium (III+VI)	mg/kg	1 (Primary): 5 (Interlab)	19.0	21.0	10	**19.0**	**9.3**	**69**
	Copper	mg/kg	1 (Primary): 5 (Interlab)	**500.0**	**130.0**	**117**	**500.0**	**70.0**	**151**
	Lead	mg/kg	1 (Primary): 5 (Interlab)	**240.0**	**41.0**	**142**	**240.0**	**23.0**	**165**
	Mercury	mg/kg	0.1	**0.6**	**<0.1**	**143**	**0.6**	**<0.1**	**143**
	Nickel	mg/kg	1 (Primary): 5 (Interlab)	**16.0**	**9.0**	**56**	**15.0**	**5.3**	**100**
	Zinc	mg/kg	1 (Primary): 5 (Interlab)	**420.0**	**79.0**	**137**	**420.0**	**62.0**	**149**
Moisture	Moisture	%	0.1	20.0	19.0	5	20.0		
PAHs	Acenaphthene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Acenaphthylene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Anthracene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Benz(a)anthracene	mg/kg	0.1	**0.5**	**<0.1**	**133**	**0.5**	**<0.1**	**133**
	Benzo(a) pyrene	mg/kg	0.05 (Primary): 0.1 (Interlab)	**0.6**	**<0.05**	**169**	**0.6**	**<0.1**	**143**
	Benzo(b)&(k)fluoranthene	mg/kg	0.2	**0.9**	**<0.2**	**127**	0.9		
	Benzo(g,h,i)perylene	mg/kg	0.1	0.3	<0.1	100	0.3	<0.1	100
	Chrysene	mg/kg	0.1	**0.6**	**<0.1**	**133**	**0.5**	**<0.1**	**133**
	Dibenz(a,h)anthracene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Fluoranthene	mg/kg	0.1	**0.9**	**<0.1**	**160**	**0.9**	**<0.1**	**160**
	Fluorene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	0.3	<0.1	100	0.3	<0.1	100
	Naphthalene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Phenanthrene	mg/kg	0.1	**0.4**	**<0.1**	**120**	**0.4**	**<0.1**	**120**
	Pyrene	mg/kg	0.1	**0.9**	**<0.1**	**160**	**0.9**	**<0.1**	**160**
TPH (C10-C36)	TPH C10 - C14	mg/kg	50	<50.0	<50.0	0	<50.0	<50.0	0
	TPH C15 - C28	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
	TPH C29-C36	mg/kg	100	<100.0	<100.0	0	<100.0	<100.0	0
VOCs	1,1,1,2-tetrachloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1,1-trichloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1,2,2-tetrachloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1,2-trichloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1-dichloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1-dichloroethene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,1-dichloropropene	mg/kg	1	<1.0	<1.0	0	<1.0		
	1,2,3-trichlorobenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	1,2,3-trichloropropane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,2,4-trichlorobenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	1,2,4-trimethylbenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,2-dibromo-3-chloropropane	mg/kg	1	<1.0	<1.0	0	<1.0		
	1,2-dibromoethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,2-dichlorobenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,2-dichloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,2-dichloropropane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,3,5-trimethylbenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,3-dichlorobenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,3-dichloropropane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	1,4-dichlorobenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	2,2-dichloropropane	mg/kg	1	<1.0	<1.0	0	<1.0		
	2-chlorotoluene	mg/kg	1	<1.0	<1.0	0	<1.0		
	4-chlorotoluene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Benzene	mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	Bromobenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Bromochloromethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Bromodichloromethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Bromoform	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Bromomethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Carbon tetrachloride	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Chlorobenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Chlorodibromomethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Chloroethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Chloroform	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Chloromethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	cis-1,2-dichloroethene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	cis-1,3-dichloropropene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Cyclohexane	mg/kg	1	<1.0	<1.0	0	<1.0		
	Dibromomethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Dichlorodifluoromethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Ethylbenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Hexachlorobutadiene	mg/kg	1	<1.0	<1.0	0	<1.0		
	Isopropylbenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	n-butylbenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	n-propylbenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	p-isopropyltoluene	mg/kg	1	<1.0	<1.0	0	<1.0		
	sec-butylbenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	Styrene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Trichloroethene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	tert-butylbenzene	mg/kg	1	<1.0	<1.0	0	<1.0		
	Tetrachloroethene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Toluene	mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	trans-1,2-dichloroethene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	trans-1,3-dichloropropene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Trichlorofluoromethane	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Vinyl chloride	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Xylene (m & p)	mg/kg	2 (Primary): 0.1 (Interlab)	<2.0	<2.0	0	<2.0	<0.1	0
	Xylene (o)	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
vTRH & BTEX in Soil	Benzene	mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	Ethylbenzene	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0
	Toluene	mg/kg	0.5 (Primary): 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.05	0
	TPH C6 - C9	mg/kg	25 (Primary): 20 (Interlab)	<25.0	<25.0	0	<25.0	<20.0	0
	Xylene (m & p)	mg/kg	2 (Primary): 0.1 (Interlab)	<2.0	<2.0	0	<2.0	<0.1	0
	Xylene (o)	mg/kg	1 (Primary): 0.05 (Interlab)	<1.0	<1.0	0	<1.0	<0.05	0

*RPDs have only been considered where a concentration is greater than 0 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 100 (0-5 x EQL); 75 (5-10 x EQL); 30 (> 10 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Table 5: RPD Water Result Summary

Field Duplicates (water) Filter: SDG in('51457')			**SDG** **Field_ID** **Sampled_I**	51457 GW2 4/02/2011	51457 Dup1 4/02/2011	**RPD**
Method_Type	**ChemName**	**Units**	**EQL**			
Heavy Metals	Arsenic (Filtered)	µg/L	1	<1.0	<1.0	0
	Cadmium (Filtered)	µg/L	0.1	<0.1	<0.1	0
	Chromium (III+VI) (Filtered)	µg/L	1	<1.0	<1.0	0
	Copper (Filtered)	µg/L	1	<1.0	<1.0	0
	Lead (Filtered)	mg/l	0.001	<0.001	0.001	0
	Mercury (Filtered)	µg/L	0.4	<0.4	<0.4	0
	Nickel (Filtered)	µg/L	1	<1.0	<1.0	0
	Zinc (Filtered)	µg/L	1	2.0	2.0	0
TPH	TPH C10 - C14	µg/L	50	<50.0	<50.0	0
	TPH C15 - C28	µg/L	100	<100.0	<100.0	0
	TPH C29-C36	µg/L	100	<100.0	<100.0	0
VOCs	1,1,1,2-tetrachloroethane	µg/L	1	<1.0	<1.0	0
	1,1,1-trichloroethane	µg/L	1	<1.0	<1.0	0
	1,1,2,2-tetrachloroethane	µg/L	1	<1.0	<1.0	0
	1,1,2-trichloroethane	µg/L	1	<1.0	<1.0	0
	1,1-dichloroethane	µg/L	1	<1.0	<1.0	0
	1,1-dichloroethene	µg/L	1	<1.0	<1.0	0
	1,1-dichloropropene	µg/L	1	<1.0	<1.0	0
	1,2,3-trichlorobenzene	µg/L	1	<1.0	<1.0	0
	1,2,3-trichloropropane	µg/L	1	<1.0	<1.0	0
	1,2,4-trichlorobenzene	µg/L	1	<1.0	<1.0	0
	1,2,4-trimethylbenzene	µg/L	1	<1.0	<1.0	0
	1,2-dibromo-3-chloropropane	µg/L	1	<1.0	<1.0	0
	1,2-dibromoethane	µg/L	1	<1.0	<1.0	0
	1,2-dichlorobenzene	µg/L	1	<1.0	<1.0	0
	1,2-dichloroethane	µg/L	1	<1.0	<1.0	0
	1,2-dichloropropane	µg/L	1	<1.0	<1.0	0
	1,3,5-trimethylbenzene	µg/L	1	<1.0	<1.0	0
	1,3-dichlorobenzene	µg/L	1	<1.0	<1.0	0
	1,3-dichloropropane	µg/L	1	<1.0	<1.0	0
	1,4-dichlorobenzene	µg/L	1	<1.0	<1.0	0
	2,2-dichloropropane	µg/L	1	<1.0	<1.0	0
	2-chlorotoluene	µg/L	1	<1.0	<1.0	0
	4-chlorotoluene	µg/L	1	<1.0	<1.0	0
	Benzene	µg/L	1	<1.0	<1.0	0
	Bromobenzene	µg/L	1	<1.0	<1.0	0
	Bromochloromethane	µg/L	1	<1.0	<1.0	0
	Bromodichloromethane	µg/L	1	<1.0	<1.0	0
	Bromoform	µg/L	1	<1.0	<1.0	0
	Bromomethane	µg/L	10	<10.0	<10.0	0
	Carbon tetrachloride	µg/L	1	<1.0	<1.0	0
	Chlorobenzene	µg/L	1	<1.0	<1.0	0
	Chlorodibromomethane	µg/L	1	<1.0	<1.0	0
	Chloroethane	µg/L	10	<10.0	<10.0	0
	Chloroform	µg/L	1	<1.0	<1.0	0
	Chloromethane	µg/L	10	<10.0	<10.0	0
	cis-1,2-dichloroethene	µg/L	1	<1.0	<1.0	0
	cis-1,3-dichloropropene	µg/L	1	<1.0	<1.0	0
	Cyclohexane	mg/l	0.001	<0.001	<0.001	0
	Dibromomethane	µg/L	1	<1.0	<1.0	0
	Dichlorodifluoromethane	µg/L	10	<10.0	<10.0	0
	Ethylbenzene	µg/L	1	<1.0	<1.0	0
	Hexachlorobutadiene	µg/L	1	<1.0	<1.0	0
	Isopropylbenzene	µg/L	1	<1.0	<1.0	0
	n-butylbenzene	µg/L	1	<1.0	<1.0	0
	n-propylbenzene	µg/L	1	<1.0	<1.0	0
	p-isopropyltoluene	µg/L	1	<1.0	<1.0	0
	sec-butylbenzene	µg/L	1	<1.0	<1.0	0
	Styrene	µg/L	1	<1.0	<1.0	0
	Trichloroethene	µg/L	1	<1.0	<1.0	0
	tert-butylbenzene	µg/L	1	<1.0	<1.0	0
	Tetrachloroethene	µg/L	1	<1.0	<1.0	0
	Toluene	µg/L	1	<1.0	<1.0	0
	trans-1,2-dichloroethene	µg/L	1	<1.0	<1.0	0
	trans-1,3-dichloropropene	µg/L	1	<1.0	<1.0	0
	Trichlorofluoromethane	µg/L	10	<10.0	<10.0	0
	Vinyl chloride	µg/L	10	<10.0	<10.0	0
	Xylene (m & p)	µg/L	2	<2.0	<2.0	0
	Xylene (o)	µg/L	1	<1.0	<1.0	0
TPH (C6-C9)	TPH C6 - C9	µg/L	10	<10.0	<10.0	0

*RPDs have only been considered where a concentration is greater than 0 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 100 (0-5 x EQL); 75 (5-10 x EQL); 30 (> 10 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

APPENDIX I Chain of Custody and Laboratory Analytical Certificates

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: WSP Environmental Pty Ltd	Client Project Name and Number: 15742 Columbia Precinct Homebush.
Project Mgr: Stephen Barnett	PO No.: 15742.01
Sampler: Aaron Young	Envirolab Services Quote No. :
Address: Lev 1, 41 McLaren St North Sydney	Date results required:
Email: aaron.young@wspgroup.com	Or choose: standard
Phone: 0448977990 89256700 Fax: 89256799	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067

Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au

Contact: Aileen Hie

Sample Information				Tests Required																Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Metals 8	TPH	PAH	VOCs	HOLD.	BTEX											Provide as much information about the sample as you can
1	BH1 0.0	27/1/11	SOIL					X												
2	BH1 0.5							X												
3	BH1 1.2							X												
4	BH1 2.0							X												
5	BH1 3.0							X												
6	BH1 4.0			X	X	X	X		X											
7	BH1 5.0							X												
8	BH2 0.0	27/1/11						X												
9	BH2 0.5			X	X	X	X		X											
10	BH2 1.0							X												
11	BH2 2.0							X												
12	BH2 3.0							X												
13	BH2 4.0							X												
14	BH3 0.1	27/1/11						X												
15	BH3 0.5			X	X	X	X		X											

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

Site No: SI51
Date received: 31/1/11
Time received: 2pm
Received by: MP
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by (company): WSP	Received by (company):	Samples Received: Cool or Ambient (circle one)	
Print Name: AARON YOUNG	Print Name:	Temperature Recieved at:	(if applicable)
Date & Time: 31/1/11 11:30am	Date & Time:	Transported by: Hand delivered / courier	
Signature:	Signature:	Page No: 1 of 4	

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: WSP Environmental Pty Ltd	**Client Project Name and Number:** 15742 Columbia Precinct Homebush.
Project Mgr: Stephen Barnett	**PO No.:** 15742-01
Sampler: Aaron Young	**Envirolab Services Quote No. :**
Address: Lev 1, 41 McLaren St, North Sydney	**Date results required:**
Email:	**Or choose:** standard
Phone: 89256700 **Fax:** 89256799	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067

Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au

Contact: Aileen Hie

Sample Information				Tests Required															Comments
Envirolab Sample ID	Client Sample ID		Date sampled	Type of sample	Metals 8	TPH	PAH	VOCs	HOLD	BTEX										Provide as much information about the sample as you can
16	BH3	1.0		SOIL					x											
17	BH3	2.0							x											
18	BH3	3.0							x											
19	BH4	0.3	27/1/11						x											
20	BH4	0.6							x											
21	BH4	1-2			x	x	x	x		x										
22	BH4	2.0							x											
23	BH4	3.0							x											
24	BH4	4.0			[illegible]	[illegible]	[illegible]	[illegible]	x	[illegible]										
25	BH4	5.0							x											
26	BH5	0.3	27/1/11		x	x	x	x		x										
27	BH5	0.6							x											
28	BH5	1.0							x											
29	BH5	2.0							x											
30	BH5	4.0							x											

Relinquished by (company): WSP	**Received by (company):**	**Samples Received:** Cool or Ambient (circle one)
Print Name: AARON Young	**Print Name:**	**Temperature Recieved at:** (if applicable)
Date & Time: 31/1/11 4.30pm	**Date & Time:**	**Transported by:** Hand delivered / courier
Signature:	**Signature:**	**Page No:** 2 of 4

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: WSP Environmental Pty Ltd	**Client Project Name and Number:** 15742 Columbia Precinct Homebush
Project Mgr: Stephen Barnett	**PO No.:** 15742.01
Sampler: Aaron Young	**Envirolab Services Quote No. :**
Address: Lev 1, 41 McLaren St, North Sydney	**Date results required:**
Email:	**Or choose:** (standard)
Phone: 89256700 **Fax:** 89256799	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067
Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au
Contact: Aileen Hie

Sample information				Tests Required															Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Metals 8	TPH	PAH	VOCs	HOLD	BTEX										Provide as much information about the sample as you can
31	BH6 0.3	28/1/11	SOIL					X											
32	BH6 0.7							X											
33	BH6 1.0			X	X	X	X		X										
34	BH6 1.5							X											
35	BH6 3.0							X											
36	BH7 1.0	28/1/11		X	X	X	X		X										
37	BH7 1.5							X											
38	BH7 3.0							X											
39	BH8 0.3	28/1/11		X	X	X	X		X										
40	BH8 0.7							X											
41	BH8 1.2							X											
42	BH8 2.0							X											
43	BH9 0.3	28/1/11						X											
44	BH9 0.5			X	X	X	X		X										
45	BH9 1.0							X											

Relinquished by (company): WSP	**Received by (company):**	**Samples Received:** Cool or Ambient (circle one)
Print Name: AARON YOUNG	**Print Name:**	**Temperature Recieved at:** (if applicable)
Date & Time: 31/1/11	**Date & Time:**	**Transported by:** Hand delivered / courier
Signature:	**Signature:**	**Page No:** 3 of 4

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: WSP Environmental Pty Ltd	**Client Project Name and Number:** 15742 Columbia Precinct Homebush.
Project Mgr: Stephen Barnett	**PO No.:** 15742-01
Sampler: Aaron Young	**Envirolab Services Quote No. :**
Address: Lev 1, 41 McLaren St, North Sydney	**Date results required:**
Email:	**Or choose:** (standard)
Phone: 89256700 **Fax:** 89256799	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067

Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au

Contact: Aileen Hie

Sample information				Tests Required															Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Metals 8	TPH	PAH	VOCs	HOLD	BTEX										Provide as much information about the sample as you can
46	BH10 0.6	28/1/11	SOIL	X	X	X	X		X										
47	BH10 1.0	↓	↓					X											
48	BH10 2.0							X											
49	BH10 3.0							X											
50	DUP1	27/1/11	SOIL	X	X	X	X		X										
51	TRIP1	27/1/11	SOIL	X	X	X	X		X	→ Please forward to Labmark.									
52	BH3 4.0																		
53	BH5 3.0																		
54	BH7 0.65																		
55	BH9 2.0																		
56	BH10 0.3																		

Relinquished by (company): WSP	**Received by (company):**
Print Name: AARON YOUNG	**Print Name:**
Date & Time: 31/1/11	**Date & Time:**
Signature:	**Signature:**

Samples Received: Cool or Ambient (circle one)
Temperature Recieved at: (if applicable)
Transported by: Hand delivered / courier

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 51151

Client:
WSP Environment Energy
Level 1, 41 McLaren St
North Sydney
NSW 2060

Attention: Aaron Young

Sample log in details:

Your Reference:	**15742, Columbia Precinct Homebush**
No. of samples:	55 Soils
Date samples received:	01/02/11
Date completed instructions received:	01/02/11

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:	7/02/11
Date of Preliminary Report:	Not issued
Issue Date:	7/02/11

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Accredited for compliance with ISO/IEC 17025.
Tests not covered by NATA are denoted with *.

Results Approved By:

Tania Notaras
Manager

Rhian Morgan
Reporting Supervisor

Nancy Zhang
Chemist

ACCREDITED FOR TECHNICAL COMPETENCE

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-6 BH1 4.0 27/01/2011 Soil	51151-9 BH2 0.5 27/01/2011 Soil	51151-15 BH3 0.5 27/01/2011 Soil	51151-21 BH4 1.2 27/01/2011 Soil	51151-26 BH5 0.3 27/01/2011 Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Dichlorodifluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chloroform	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Cyclohexane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
carbon tetrachloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
dibromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromodichloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
dibromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tetrachloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromoform	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
styrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-6 BH1 4.0 27/01/2011 Soil	51151-9 BH2 0.5 27/01/2011 Soil	51151-15 BH3 0.5 27/01/2011 Soil	51151-21 BH4 1.2 27/01/2011 Soil	51151-26 BH5 0.3 27/01/2011 Soil
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
isopropylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tert-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
sec-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	99	98	100	99	98
Surrogate aaa-Trifluorotoluene	%	113	121	120	113	120
Surrogate Toluene-d8	%	100	101	101	101	101
Surrogate 4-Bromofluorobenzene	%	105	103	103	104	105

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-33 BH6 1.0 28/01/2011 Soil	51151-36 BH7 1.0 28/01/2011 Soil	51151-39 BH8 0.3 28/01/2011 Soil	51151-44 BH9 0.5 28/01/2011 Soil	51151-46 BH10 0.6 28/01/2011 Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Dichlorodifluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-dichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chloroform	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Cyclohexane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
carbon tetrachloride	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
dibromomethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trichloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromodichloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
dibromochloromethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tetrachloroethene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
chlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromoform	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
styrene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-33 BH6 1.0 28/01/2011 Soil	51151-36 BH7 1.0 28/01/2011 Soil	51151-39 BH8 0.3 28/01/2011 Soil	51151-44 BH9 0.5 28/01/2011 Soil	51151-46 BH10 0.6 28/01/2011 Soil
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
isopropylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
bromobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
tert-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
sec-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
hexachlorobutadiene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluorometha	%	99	98	99	105	102
Surrogate aaa-Trifluorotoluene	%	121	120	116	113	121
Surrogate Toluene-d8	%	102	101	101	103	105
Surrogate 4-Bromofluorobenzene	%	103	104	102	106	107

VOCs in soil		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date extracted	-	02/02/2011
Date analysed	-	03/02/2011
Dichlorodifluoromethane	mg/kg	<1.0
Chloromethane	mg/kg	<1.0
Vinyl Chloride	mg/kg	<1.0
Bromomethane	mg/kg	<1.0
Chloroethane	mg/kg	<1.0
Trichlorofluoromethane	mg/kg	<1.0
1,1-Dichloroethene	mg/kg	<1.0
trans-1,2-dichloroethene	mg/kg	<1.0
1,1-dichloroethane	mg/kg	<1.0
cis-1,2-dichloroethene	mg/kg	<1.0
bromochloromethane	mg/kg	<1.0
chloroform	mg/kg	<1.0
2,2-dichloropropane	mg/kg	<1.0
1,2-dichloroethane	mg/kg	<1.0
1,1,1-trichloroethane	mg/kg	<1.0
1,1-dichloropropene	mg/kg	<1.0
Cyclohexane	mg/kg	<1.0
carbon tetrachloride	mg/kg	<1.0
Benzene	mg/kg	<0.5
dibromomethane	mg/kg	<1.0
1,2-dichloropropane	mg/kg	<1.0
trichloroethene	mg/kg	<1.0
bromodichloromethane	mg/kg	<1.0
trans-1,3-dichloropropene	mg/kg	<1.0
cis-1,3-dichloropropene	mg/kg	<1.0
1,1,2-trichloroethane	mg/kg	<1.0
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1.0
dibromochloromethane	mg/kg	<1.0
1,2-dibromoethane	mg/kg	<1.0
tetrachloroethene	mg/kg	<1.0
1,1,1,2-tetrachloroethane	mg/kg	<1.0
chlorobenzene	mg/kg	<1.0
Ethylbenzene	mg/kg	<1.0
bromoform	mg/kg	<1.0
m+p-xylene	mg/kg	<2.0
styrene	mg/kg	<1.0
1,1,2,2-tetrachloroethane	mg/kg	<1.0

VOCs in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-50 Dup1 - 27/01/2011 Soil
o-Xylene	mg/kg	<1.0
1,2,3-trichloropropane	mg/kg	<1.0
isopropylbenzene	mg/kg	<1.0
bromobenzene	mg/kg	<1.0
n-propyl benzene	mg/kg	<1.0
2-chlorotoluene	mg/kg	<1.0
4-chlorotoluene	mg/kg	<1.0
1,3,5-trimethyl benzene	mg/kg	<1.0
tert-butyl benzene	mg/kg	<1.0
1,2,4-trimethyl benzene	mg/kg	<1.0
1,3-dichlorobenzene	mg/kg	<1.0
sec-butyl benzene	mg/kg	<1.0
1,4-dichlorobenzene	mg/kg	<1.0
4-isopropyl toluene	mg/kg	<1.0
1,2-dichlorobenzene	mg/kg	<1.0
n-butyl benzene	mg/kg	<1.0
1,2-dibromo-3-chloropropane	mg/kg	<1.0
1,2,4-trichlorobenzene	mg/kg	<1.0
hexachlorobutadiene	mg/kg	<1.0
1,2,3-trichlorobenzene	mg/kg	<1.0
Surrogate Dibromofluorometha	%	101
Surrogate aaa-Trifluorotoluene	%	115
Surrogate Toluene-d_8	%	104
Surrogate 4-Bromofluorobenzene	%	105

vTRH & BTEX in Soil						
Our Reference:	UNITS	51151-6	51151-9	51151-15	51151-21	51151-26
Your Reference	----------	BH1	BH2	BH3	BH4	BH5
Depth	----------	4.0	0.5	0.5	1.2	0.3
Date Sampled		27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
vTRH 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	%	113	121	120	113	120

vTRH & BTEX in Soil						
Our Reference:	UNITS	51151-33	51151-36	51151-39	51151-44	51151-46
Your Reference	----------	BH6	BH7	BH8	BH9	BH10
Depth	----------	1.0	1.0	0.3	0.5	0.6
Date Sampled		28/01/2011	28/01/2011	28/01/2011	28/01/2011	28/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
vTRH 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	120	116	113	121

vTRH & BTEX in Soil		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date extracted	-	02/02/2011
Date analysed	-	03/02/2011
vTRH C_6 - C_9	mg/kg	<25
Benzene	mg/kg	<0.5
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1.0
m+p-xylene	mg/kg	<2.0
o-Xylene	mg/kg	<1.0
Surrogate aaa-Trifluorotoluene	%	115

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51151-6	51151-9	51151-15	51151-21	51151-26
Your Reference	----------	BH1	BH2	BH3	BH4	BH5
Depth	----------	4.0	0.5	0.5	1.2	0.3
Date Sampled		27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	103	106	104	105	106

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51151-33	51151-36	51151-39	51151-44	51151-46
Your Reference	----------	BH6	BH7	BH8	BH9	BH10
Depth	----------	1.0	1.0	0.3	0.5	0.6
Date Sampled		28/01/2011	28/01/2011	28/01/2011	28/01/2011	28/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	69	<50
TRH C_{15} - C_{28}	mg/kg	370	<100	<100	450	<100
TRH C_{29} - C_{36}	mg/kg	680	<100	<100	180	<100
Surrogate o-Terphenyl	%	108	105	105	133	106

sTRH in Soil (C10-C36)		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date extracted	-	02/02/2011
Date analysed	-	03/02/2011
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Surrogate o-Terphenyl	%	105

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-6 BH1 4.0 27/01/2011 Soil	51151-9 BH2 0.5 27/01/2011 Soil	51151-15 BH3 0.5 27/01/2011 Soil	51151-21 BH4 1.2 27/01/2011 Soil	51151-26 BH5 0.3 27/01/2011 Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
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	0.5	<0.1	0.1	0.4	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.7	<0.1	0.3	0.9	<0.1
Pyrene	mg/kg	0.7	<0.1	0.3	0.9	<0.1
Benzo(a)anthracene	mg/kg	0.3	<0.1	0.2	0.5	<0.1
Chrysene	mg/kg	0.4	<0.1	0.2	0.5	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.6	<0.2	0.3	0.9	<0.2
Benzo(a)pyrene	mg/kg	0.4	<0.05	0.2	0.6	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	0.1	0.3	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	0.1	0.3	<0.1
Surrogate p-Terphenyl-d_{14}	%	109	99	101	107	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ---------- ---------- 	51151-33 BH6 1.0 28/01/2011 Soil	51151-36 BH7 1.0 28/01/2011 Soil	51151-39 BH8 0.3 28/01/2011 Soil	51151-44 BH9 0.5 28/01/2011 Soil	51151-46 BH10 0.6 28/01/2011 Soil
Date extracted	-	02/02/2011	02/02/2011	02/02/2011	02/02/2011	02/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
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	0.4	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.4	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Fluoranthene	mg/kg	0.2	0.2	<0.1	1.2	0.2
Pyrene	mg/kg	0.2	0.2	<0.1	1.4	0.2
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.4	0.2
Chrysene	mg/kg	0.2	0.1	<0.1	0.5	0.2
Benzo(b+k)fluoranthene	mg/kg	0.3	<0.2	<0.2	1	0.4
Benzo(a)pyrene	mg/kg	0.2	0.1	<0.05	0.7	0.3
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<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	0.2	<0.1	<0.1	0.4	0.1
Surrogate p-Terphenyl-d_{14}	%	101	105	107	103	105

PAHs in Soil		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date extracted	-	02/02/2011
Date analysed	-	03/02/2011
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-d_{14}	%	103

Acid Extractable metals in soil						
Our Reference:	UNITS	51151-6	51151-9	51151-15	51151-21	51151-26
Your Reference	----------	BH1	BH2	BH3	BH4	BH5
Depth	----------	4.0	0.5	0.5	1.2	0.3
Date Sampled		27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Arsenic	mg/kg	5	<4	7	7	<4
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	10	13	26	19	7
Copper	mg/kg	11	12	28	500	4
Lead	mg/kg	17	15	190	240	10
Mercury	mg/kg	<0.1	<0.1	<0.1	0.6	<0.1
Nickel	mg/kg	3	4	8	16	2
Zinc	mg/kg	15	6	26	420	3

Acid Extractable metals in soil						
Our Reference:	UNITS	51151-33	51151-36	51151-39	51151-44	51151-46
Your Reference	----------	BH6	BH7	BH8	BH9	BH10
Depth	----------	1.0	1.0	0.3	0.5	0.6
Date Sampled		28/01/2011	28/01/2011	28/01/2011	28/01/2011	28/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Date analysed	-	03/02/2011	03/02/2011	03/02/2011	03/02/2011	03/02/2011
Arsenic	mg/kg	<4	<4	7	19	11
Cadmium	mg/kg	<0.5	<0.5	<0.5	0.5	<0.5
Chromium	mg/kg	21	14	21	11	15
Copper	mg/kg	33	9	29	35	25
Lead	mg/kg	26	12	52	28	29
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	44	4	9	12	8
Zinc	mg/kg	120	6	36	77	37

Acid Extractable metals in soil		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date digested	-	03/02/2011
Date analysed	-	03/02/2011
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.5
Chromium	mg/kg	21
Copper	mg/kg	130
Lead	mg/kg	41
Mercury	mg/kg	<0.1
Nickel	mg/kg	9
Zinc	mg/kg	79

Moisture						
Our Reference:	UNITS	51151-6	51151-9	51151-15	51151-21	51151-26
Your Reference	----------	BH1	BH2	BH3	BH4	BH5
Depth	----------	4.0	0.5	0.5	1.2	0.3
Date Sampled		27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date analysed	-	3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Moisture	%	19	18	22	20	17

Moisture						
Our Reference:	UNITS	51151-33	51151-36	51151-39	51151-44	51151-46
Your Reference	----------	BH6	BH7	BH8	BH9	BH10
Depth	----------	1.0	1.0	0.3	0.5	0.6
Date Sampled		28/01/2011	28/01/2011	28/01/2011	28/01/2011	28/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date analysed	-	3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Moisture	%	18	21	26	20	27

Moisture		
Our Reference:	UNITS	51151-50
Your Reference	----------	Dup1
Depth	----------	-
Date Sampled		27/01/2011
Type of sample		Soil
Date prepared	-	2/02/2011
Date analysed	-	3/02/2011
Moisture	%	19

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.
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.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			02/02/2011	51151-6	02/02/2011 || 02/02/2011	LCS-1	02/02/2011
Date analysed	-			03/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-1	03/02/2011
Dichlorodifluoromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Chloromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Vinyl Chloride	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Bromomethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Chloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	75%
cis-1,2-dichloroethene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
bromochloromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
chloroform	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	94%
2,2-dichloropropane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	95%
1,1,1-trichloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	67%
1,1-dichloropropene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Cyclohexane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
carbon tetrachloride	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Benzene	mg/kg	0.5	GC.14	<0.5	51151-6	<0.5 || <0.5	[NR]	[NR]
dibromomethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
trichloroethene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	69%
bromodichloromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	86%
trans-1,3-dichloropropene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Toluene	mg/kg	0.5	GC.14	<0.5	51151-6	<0.5 || <0.5	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
dibromochloromethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	88%
1,2-dibromoethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
tetrachloroethene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	LCS-1	78%
1,1,1,2-tetrachloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
chlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Ethylbenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
bromoform	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
m+p-xylene	mg/kg	2	GC.14	<2.0	51151-6	<2.0 || <2.0	[NR]	[NR]
styrene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
o-Xylene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
isopropylbenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
bromobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
n-propyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
2-chlorotoluene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
4-chlorotoluene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
tert-butyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
sec-butyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
n-butyl benzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	GC.14	<1.0	51151-6	<1.0 || <1.0	[NR]	[NR]
Surrogate Dibromofluorometha	%		GC.14	100	51151-6	99 || 99 || RPD: 0	LCS-1	96%
Surrogate aaa-Trifluorotoluene	%		GC.14	117	51151-6	113 || 130 || RPD: 14	LCS-1	126%
Surrogate Toluene-d_8	%		GC.14	100	51151-6	100 || 101 || RPD: 1	LCS-1	105%
Surrogate 4-Bromofluorobenzene	%		GC.14	105	51151-6	105 || 104 || RPD: 1	LCS-1	108%

QUALITY CONTROL vTRH & BTEX in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			02/02/2011	51151-6	02/02/2011 || 02/02/2011	LCS-1	02/02/2011
Date analysed	-			03/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-1	03/02/2011
vTRH C_6 - C_9	mg/kg	25	GC.16	<25	51151-6	<25 || <25	LCS-1	109%
Benzene	mg/kg	0.5	GC.16	<0.5	51151-6	<0.5 || <0.5	LCS-1	108%
Toluene	mg/kg	0.5	GC.16	<0.5	51151-6	<0.5 || <0.5	LCS-1	106%
Ethylbenzene	mg/kg	1	GC.16	<1.0	51151-6	<1.0 || <1.0	LCS-1	109%
m+p-xylene	mg/kg	2	GC.16	<2.0	51151-6	<2.0 || <2.0	LCS-1	110%
o-Xylene	mg/kg	1	GC.16	<1.0	51151-6	<1.0 || <1.0	LCS-1	116%
Surrogate aaa-Trifluorotoluene	%		GC.16	117	51151-6	113 || 130 || RPD: 14	LCS-1	127%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			02/02/2011	51151-6	02/02/2011 || 02/02/2011	LCS-1	02/02/2011
Date analysed	-			02/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-1	02/02/2011
TRH C_{10} - C_{14}	mg/kg	50	GC.3	<50	51151-6	<50 || <50	LCS-1	94%
TRH C_{15} - C_{28}	mg/kg	100	GC.3	<100	51151-6	<100 || <100	LCS-1	104%
TRH C_{29} - C_{36}	mg/kg	100	GC.3	<100	51151-6	<100 || <100	LCS-1	95%
Surrogate o-Terphenyl	%		GC.3	102	51151-6	103 || 103 || RPD: 0	LCS-1	102%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			02/02/2011	51151-6	02/02/2011 || 02/02/2011	LCS-7	02/02/2011
Date analysed	-			03/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-7	03/02/2011
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	LCS-7	98%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	LCS-7	96%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.5 || 0.3 || RPD: 50	LCS-7	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.7 || 0.6 || RPD: 15	LCS-7	100%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.7 || 0.6 || RPD: 15	LCS-7	105%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.3 || 0.3 || RPD: 0	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.4 || 0.4 || RPD: 0	LCS-7	113%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	51151-6	0.6 || 0.6 || RPD: 0	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	51151-6	0.4 || 0.4 || RPD: 0	LCS-7	94%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.2 || 0.2 || RPD: 0	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	<0.1 || <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	51151-6	0.2 || 0.2 || RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%		GC.12 subset	99	51151-6	109 || 103 || RPD: 6	LCS-7	106%
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	-			03/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-1	03/02/2011
Date analysed	-			03/02/2011	51151-6	03/02/2011 || 03/02/2011	LCS-1	03/02/2011
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	51151-6	5 || 4 || RPD: 22	LCS-1	108%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	51151-6	<0.5 || <0.5	LCS-1	110%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	51151-6	10 || 11 || RPD: 10	LCS-1	109%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	51151-6	11 || 10 || RPD: 10	LCS-1	111%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	51151-6	17 || 16 || RPD: 6	LCS-1	108%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	51151-6	<0.1 || <0.1	LCS-1	102%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	51151-6	3 || 3 || RPD: 0	LCS-1	110%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	51151-6	15 || 16 || RPD: 6	LCS-1	110%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			02/02/2011
Date analysed	-			03/02/2011
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL VOCs in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51151-50	02/02/2011 || 02/02/2011	51151-9	02/02/2011
Date analysed	-	51151-50	03/02/2011 || 03/02/2011	51151-9	03/02/2011
Dichlorodifluoromethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Chloromethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Vinyl Chloride	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Bromomethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Chloroethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Trichlorofluoromethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,1-Dichloroethene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,1-dichloroethane	mg/kg	51151-50	<1.0 || <1.0	51151-9	73%
cis-1,2-dichloroethene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
bromochloromethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
chloroform	mg/kg	51151-50	<1.0 || <1.0	51151-9	91%
2,2-dichloropropane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2-dichloroethane	mg/kg	51151-50	<1.0 || <1.0	51151-9	92%
1,1,1-trichloroethane	mg/kg	51151-50	<1.0 || <1.0	51151-9	66%
1,1-dichloropropene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Cyclohexane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
carbon tetrachloride	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Benzene	mg/kg	51151-50	<0.5 || <0.5	[NR]	[NR]
dibromomethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2-dichloropropane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
trichloroethene	mg/kg	51151-50	<1.0 || <1.0	51151-9	67%
bromodichloromethane	mg/kg	51151-50	<1.0 || <1.0	51151-9	80%
trans-1,3-dichloropropene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Toluene	mg/kg	51151-50	<0.5 || <0.5	[NR]	[NR]
1,3-dichloropropane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
dibromochloromethane	mg/kg	51151-50	<1.0 || <1.0	51151-9	81%
1,2-dibromoethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
tetrachloroethene	mg/kg	51151-50	<1.0 || <1.0	51151-9	76%
1,1,1,2-tetrachloroethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
chlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Ethylbenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
bromoform	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
m+p-xylene	mg/kg	51151-50	<2.0 || <2.0	[NR]	[NR]
styrene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
o-Xylene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
isopropylbenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
bromobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
n-propyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
2-chlorotoluene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
4-chlorotoluene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
tert-butyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
sec-butyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
4-isopropyl toluene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
n-butyl benzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
hexachlorobutadiene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	51151-50	<1.0 || <1.0	[NR]	[NR]
Surrogate Dibromofluorometha	%	51151-50	101 || 100 || RPD: 1	51151-9	97%
Surrogate aaa-Trifluorotoluene	%	51151-50	115 || 122 || RPD: 6	51151-9	123%
Surrogate Toluene-d8	%	51151-50	104 || 104 || RPD: 0	51151-9	105%
Surrogate 4-Bromofluorobenzene	%	51151-50	105 || 105 || RPD: 0	51151-9	106%

QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51151-50	02/02/2011 || 02/02/2011	51151-10	02/02/2011
Date analysed	-	51151-50	03/02/2011 || 03/02/2011	51151-10	03/03/2011
vTRH C_6 - C_9	mg/kg	51151-50	<25 || <25	51151-10	109%
Benzene	mg/kg	51151-50	<0.5 || <0.5	51151-10	107%
Toluene	mg/kg	51151-50	<0.5 || <0.5	51151-10	105%
Ethylbenzene	mg/kg	51151-50	<1.0 || <1.0	51151-10	109%
m+p-xylene	mg/kg	51151-50	<2.0 || <2.0	51151-10	111%
o-Xylene	mg/kg	51151-50	<1.0 || <1.0	51151-10	112%
Surrogate aaa-Trifluorotoluene	%	51151-50	115 || 122 || RPD: 6	51151-10	124%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51151-50	02/02/2011 || 02/02/2011	51151-9	02/02/2011
Date analysed	-	51151-50	03/02/2011 || 03/02/2011	51151-9	03/02/2011
TRH C_{10} - C_{14}	mg/kg	51151-50	<50 || <50	51151-9	97%
TRH C_{15} - C_{28}	mg/kg	51151-50	<100 || <100	51151-9	107%
TRH C_{29} - C_{36}	mg/kg	51151-50	<100 || <100	51151-9	100%
Surrogate o-Terphenyl	%	51151-50	105 || 104 || RPD: 1	51151-9	103%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51151-50	02/02/2011 || 02/02/2011	51151-9	02/02/2011
Date analysed	-	51151-50	03/02/2011 || 03/02/2011	51151-9	03/02/2011
Naphthalene	mg/kg	51151-50	<0.1 || <0.1	51151-9	95%
Acenaphthylene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Acenaphthene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	51151-50	<0.1 || <0.1	51151-9	92%
Phenanthrene	mg/kg	51151-50	<0.1 || <0.1	51151-9	104%
Anthracene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Fluoranthene	mg/kg	51151-50	<0.1 || <0.1	51151-9	96%
Pyrene	mg/kg	51151-50	<0.1 || <0.1	51151-9	102%
Benzo(a)anthracene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Chrysene	mg/kg	51151-50	<0.1 || <0.1	51151-9	112%
Benzo(b+k)fluoranthene	mg/kg	51151-50	<0.2 || <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	51151-50	<0.05 || <0.05	51151-9	89%
Indeno(1,2,3-c,d)pyrene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	51151-50	<0.1 || <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%	51151-50	103 || 107 || RPD: 4	51151-9	104%

Client Reference: 15742, Columbia Precinct Homebush

QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	51151-50	03/02/2011 || 03/02/2011	51151-9	03/02/2011
Date analysed	-	51151-50	03/02/2011 || 03/02/2011	51151-9	03/02/2011
Arsenic	mg/kg	51151-50	9 || 12 || RPD: 29	51151-9	96%
Cadmium	mg/kg	51151-50	<0.5 || <0.5	51151-9	99%
Chromium	mg/kg	51151-50	21 || 15 || RPD: 33	51151-9	99%
Copper	mg/kg	51151-50	130 || 150 || RPD: 14	51151-9	103%
Lead	mg/kg	51151-50	41 || 38 || RPD: 8	51151-9	97%
Mercury	mg/kg	51151-50	<0.1 || <0.1	51151-9	105%
Nickel	mg/kg	51151-50	9 || 9 || RPD: 0	51151-9	98%
Zinc	mg/kg	51151-50	79 || 130 || RPD: 49	51151-9	99%

Report Comments:

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

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

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

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

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the 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.

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 51151-A

Client:
WSP Environment Energy
Level 1, 41 McLaren St
North Sydney
NSW 2060

Attention: Aaron Young / Stephen Barnett / Josie Milner

Sample log in details:

Your Reference:	**15742, Columbia Precinct Homebush**
No. of samples:	Additional Testing on 10 Soils
Date samples received / completed instructions received	01/02/11 / 21/02/11

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

Report Details:

Date results requested by: / Issue Date:	28/02/11 / 24/02/11
Date of Preliminary Report:	Not issued

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Results Approved By:

M. Mansfield
Matt Mansfield
Approved Signatory

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Asbestos ID - soils						
Our Reference:	UNITS	51151-A-6	51151-A-9	51151-A-15	51151-A-21	51151-A-26
Your Reference	----------	BH1	BH2	BH3	BH4	BH5
Depth	----------	4.0	0.5	0.5	1.2	0.3
Date Sampled		27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/02/2011	24/02/2011	24/02/2011	24/02/2011	24/02/2011
Sample Description	-	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay 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	51151-A-33	51151-A-36	51151-A-39	51151-A-44	51151-A-46
Your Reference	----------	BH6	BH7	BH8	BH9	BH10
Depth	----------	1.0	1.0	0.3	0.5	0.6
Date Sampled		28/01/2011	28/01/2011	28/01/2011	28/01/2011	28/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/02/2011	24/02/2011	24/02/2011	24/02/2011	24/02/2011
Sample Description	-	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay Soil	Approx 45g Clay 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

Method ID	Methodology Summary
ASB.1	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample.
Envirolab recommends supplying 30-40g of sample in it's own container.

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

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

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Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
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LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
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Laboratory Acceptance Criteria

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Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: WSP	**Client Project Name and Number:** Columbia Precinct 15742
Project Mgr: Stephen Barnett	**PO No.:**
Sampler: Josie Milner	**Envirolab Services Quote No. :**
Address: Level 1/41 McLaren St. North Sydney NSW 2060	**Date results required:**
Email: josie.milner@wspgroup.com	**Or choose:** (standard) 1 day / 2 day / 3 day
Phone: (02) 89256721 **Fax:** (02)89256799	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067

Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au

Contact: Aileen Hie

Sample Information				Tests Required													Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Metals(8)	TPH	VOCs											Provide as much information about the sample as you can
1	GW1	4-2-11	water	✓	✓	✓											
2	GW2	↓	↓	✓	✓	✓											
3	GW3			✓	✓	✓											
4	Dup1			✓	✓	✓											
5	Rinsate			✓	✓	✓											
6	Trip Blank																

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

Job no: 51457.
Date received: 7/2/11
Time received: 11:00
Received by: JHie
Cool/Ambient
Security: Intact/Broken/None

Relinquished by (company): WSP	**Received by (company):** ELS	**Samples Received:** Cool or Ambient (circle one)	
Print Name: Josie Milner	**Print Name:** JHie.	**Temperature Recieved at:** (if applicable)	
Date & Time: 7-2-11 10:30am	**Date & Time:** 7/2/11 11:00.	**Transported by:** Hand delivered / courier	
Signature:	**Signature:**	**Page No:**	

Envirolab Services Pty Ltd
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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 51457

Client:
WSP Environment Energy
Level 1, 41 McLaren St
North Sydney
NSW 2060

Attention: Josie Milner

Sample log in details:

Your Reference:	**15742, Columbia Precinct**
No. of samples:	6 Waters
Date samples received / completed instructions received	07/02/11 / 07/02/11

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

Report Details:

Date results requested by: / Issue Date:	14/02/11 / 11/02/11
Date of Preliminary Report:	Not issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Nancy Zhang
Chemist

Kasjan Paciuszkiewicz
Chemist

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	51457-1 GW1 4/02/2011 Water	51457-2 GW2 4/02/2011 Water	51457-3 GW3 4/02/2011 Water	51457-4 Dup1 4/02/2011 Water	51457-5 Rinsate 4/02/2011 Water
Date extracted	-	11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date analysed	-	11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Dichlorodifluoromethane	µg/L	<10	<10	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	16	<10	<10
Bromomethane	µg/L	<10	<10	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10	<10	<10
1,1-Dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Trans-1,2-dichloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,2-dichloroethene	µg/L	<1.0	<1.0	34	<1.0	<1.0
Bromochloromethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0	1.5
2,2-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-trichloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Cyclohexane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	µg/L	<1.0	<1.0	1.9	<1.0	<1.0
Bromodichloromethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-dichloropropene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloroethane	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
1,3-dichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromoethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-tetrachloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-tetrachloroethane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
o-xylene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichloropropane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	51457-1 GW1 4/02/2011 Water	51457-2 GW2 4/02/2011 Water	51457-3 GW3 4/02/2011 Water	51457-4 Dup1 4/02/2011 Water	51457-5 Rinsate 4/02/2011 Water
Bromobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
n-propyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
2-chlorotoluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
4-chlorotoluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-trimethyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Tert-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trimethyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sec-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
4-isopropyl toluene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
n-butyl benzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-dibromo-3-chloropropane	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-trichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-trichlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluoromethane	%	105	107	102	109	110
Surrogate toluene-d8	%	103	103	105	104	105
Surrogate 4-BFB	%	106	105	105	103	104

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	51457-6 Trip Blank 4/02/2011 Water
Date extracted	-	11/02/2011
Date analysed	-	11/02/2011
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1.0
Trans-1,2-dichloroethene	µg/L	<1.0
1,1-dichloroethane	µg/L	<1.0
Cis-1,2-dichloroethene	µg/L	<1.0
Bromochloromethane	µg/L	<1.0
Chloroform	µg/L	<1.0
2,2-dichloropropane	µg/L	<1.0
1,2-dichloroethane	µg/L	<1.0
1,1,1-trichloroethane	µg/L	<1.0
1,1-dichloropropene	µg/L	<1.0
Cyclohexane	µg/L	<1.0
Carbon tetrachloride	µg/L	<1.0
Benzene	µg/L	<1.0
Dibromomethane	µg/L	<1.0
1,2-dichloropropane	µg/L	<1.0
Trichloroethene	µg/L	<1.0
Bromodichloromethane	µg/L	<1.0
trans-1,3-dichloropropene	µg/L	<1.0
cis-1,3-dichloropropene	µg/L	<1.0
1,1,2-trichloroethane	µg/L	<1.0
Toluene	µg/L	<1.0
1,3-dichloropropane	µg/L	<1.0
Dibromochloromethane	µg/L	<1.0
1,2-dibromoethane	µg/L	<1.0
Tetrachloroethene	µg/L	<1.0
1,1,1,2-tetrachloroethane	µg/L	<1.0
Chlorobenzene	µg/L	<1.0
Ethylbenzene	µg/L	<1.0
Bromoform	µg/L	<1.0
m+p-xylene	µg/L	<2.0
Styrene	µg/L	<1.0
1,1,2,2-tetrachloroethane	µg/L	<1.0
o-xylene	µg/L	<1.0
1,2,3-trichloropropane	µg/L	<1.0
Isopropylbenzene	µg/L	<1.0
Bromobenzene	µg/L	<1.0

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ---------- 	51457-6 Trip Blank 4/02/2011 Water
n-propyl benzene	µg/L	<1.0
2-chlorotoluene	µg/L	<1.0
4-chlorotoluene	µg/L	<1.0
1,3,5-trimethyl benzene	µg/L	<1.0
Tert-butyl benzene	µg/L	<1.0
1,2,4-trimethyl benzene	µg/L	<1.0
1,3-dichlorobenzene	µg/L	<1.0
Sec-butyl benzene	µg/L	<1.0
1,4-dichlorobenzene	µg/L	<1.0
4-isopropyl toluene	µg/L	<1.0
1,2-dichlorobenzene	µg/L	<1.0
n-butyl benzene	µg/L	<1.0
1,2-dibromo-3-chloropropane	µg/L	<1.0
1,2,4-trichlorobenzene	µg/L	<1.0
Hexachlorobutadiene	µg/L	<1.0
1,2,3-trichlorobenzene	µg/L	<1.0
Surrogate Dibromofluoromethane	%	112
Surrogate toluene-d8	%	105
Surrogate 4-BFB	%	103

vTRH in Water (C6-C9) Our Reference: Your Reference Date Sampled Type of sample	UNITS --- --- 	51457-1 GW1 4/02/2011 Water	51457-2 GW2 4/02/2011 Water	51457-3 GW3 4/02/2011 Water	51457-4 Dup1 4/02/2011 Water	51457-5 Rinsate 4/02/2011 Water
Date extracted	-	11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date analysed	-	11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9	µg/L	<10	<10	15	<10	<10
Surrogate Dibromofluoromethane	%	105	107	102	109	110
Surrogate toluene-d8	%	103	103	105	104	105
Surrogate 4-BFB	%	106	105	105	103	104

vTRH in Water (C6-C9) Our Reference: Your Reference Date Sampled Type of sample	UNITS --- --- 	51457-6 Trip Blank 4/02/2011 Water
Date extracted	-	11/02/2011
Date analysed	-	11/02/2011
TRH C_6 - C_9	µg/L	<10
Surrogate Dibromofluoromethane	%	112
Surrogate toluene-d8	%	105
Surrogate 4-BFB	%	103

sTRH in Water (C10-C36) Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ---------- 	51457-1 GW1 4/02/2011 Water	51457-2 GW2 4/02/2011 Water	51457-3 GW3 4/02/2011 Water	51457-4 Dup1 4/02/2011 Water	51457-5 Rinsate 4/02/2011 Water
Date extracted	-	09/02/2011	09/02/2011	09/02/2011	09/02/2011	09/02/2011
Date analysed	-	09/02/2011	09/02/2011	09/02/2011	09/02/2011	09/02/2011
TRH C_{10} - C_{14}	µg/L	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	112	98	114	97	87

HM in water - dissolved Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	51457-1 GW1 4/02/2011 Water	51457-2 GW2 4/02/2011 Water	51457-3 GW3 4/02/2011 Water	51457-4 Dup1 4/02/2011 Water	51457-5 Rinsate 4/02/2011 Water
Date prepared	-	08/02/2011	08/02/2011	08/02/2011	08/02/2011	08/02/2011
Date analysed	-	08/02/2011	08/02/2011	08/02/2011	08/02/2011	08/02/2011
Arsenic-Dissolved	µg/L	<1	<1	14	<1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	1.3	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	<1	3	<1	<1
Copper-Dissolved	µg/L	<1	<1	<1	<1	<1
Lead-Dissolved	µg/L	<1	<1	7	1	<1
Mercury-Dissolved	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Nickel-Dissolved	µg/L	<1	<1	41	<1	<1
Zinc-Dissolved	µg/L	<1	2	47	2	1

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.
Metals.22 ICP-MS	Determination of various metals by ICP-MS.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL VOCs in water	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			11/02/2011	51457-5	11/02/2011 || 11/02/2011	LCS-W1	11/02/2011
Date analysed	-			11/02/2011	51457-5	11/02/2011 || 11/02/2011	LCS-W1	11/02/2011
Dichlorodifluoromethane	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
Chloromethane	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
Vinyl Chloride	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
Bromomethane	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
Chloroethane	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
Trichlorofluoromethane	µg/L	10	GC.13	<10	51457-5	<10 || <10	[NR]	[NR]
1,1-Dichloroethene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Trans-1,2-dichloroethene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,1-dichloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	99%
Cis-1,2-dichloroethene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Bromochloromethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Chloroform	µg/L	1	GC.13	<1.0	51457-5	1.5 || 1.1 || RPD: 31	LCS-W1	102%
2,2-dichloropropane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2-dichloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	102%
1,1,1-trichloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	98%
1,1-dichloropropene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Cyclohexane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Carbon tetrachloride	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Dibromomethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2-dichloropropane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Trichloroethene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	118%
Bromodichloromethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	97%
trans-1,3-dichloropropene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
cis-1,3-dichloropropene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,1,2-trichloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Toluene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,3-dichloropropane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Dibromochloromethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	95%
1,2-dibromoethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Tetrachloroethene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	LCS-W1	102%
1,1,1,2-tetrachloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Chlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Ethylbenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Bromoform	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
m+p-xylene	µg/L	2	GC.13	<2.0	51457-5	<2.0 || <2.0	[NR]	[NR]
Styrene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,1,2,2-tetrachloroethane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
o-xylene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichloropropane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]

Client Reference: 15742, Columbia Precinct

QUALITY CONTROL VOCs in water	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Isopropylbenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Bromobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
n-propyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
2-chlorotoluene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
4-chlorotoluene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,3,5-trimethyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Tert-butyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2,4-trimethyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,3-dichlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Sec-butyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,4-dichlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
4-isopropyl toluene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2-dichlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
n-butyl benzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2-dibromo-3-chloropropane	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2,4-trichlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
1,2,3-trichlorobenzene	µg/L	1	GC.13	<1.0	51457-5	<1.0 || <1.0	[NR]	[NR]
Surrogate Dibromofluoromethane	%		GC.13	92	51457-5	110 || 96 || RPD: 14	LCS-W1	96%
Surrogate toluene-d8	%		GC.13	97	51457-5	105 || 106 || RPD: 1	LCS-W1	103%
Surrogate 4-BFB	%		GC.13	105	51457-5	104 || 112 || RPD: 7	LCS-W1	97%

QUALITY CONTROL vTRH in Water (C6-C9)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			11/02/2011	[NT]	[NT]	LCS-W1	11/02/2011
Date analysed	-			11/02/2011	[NT]	[NT]	LCS-W1	11/02/2011
TRH C_6 - C_9	µg/L	10	GC.16	<10	[NT]	[NT]	LCS-W1	111%
Surrogate Dibromofluoromethane	%		GC.13	92	[NT]	[NT]	LCS-W1	100%
Surrogate toluene-d8	%		GC.13	97	[NT]	[NT]	LCS-W1	106%
Surrogate 4-BFB	%		GC.13	105	[NT]	[NT]	LCS-W1	106%
QUALITY CONTROL sTRH in Water (C10-C36)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			09/02/2011	[NT]	[NT]	LCS-W2	09/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-W2	09/02/2011
TRH C_{10} - C_{14}	µg/L	50	GC.3	<50	[NT]	[NT]	LCS-W2	77%
TRH C_{15} - C_{28}	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W2	108%
TRH C_{29} - C_{36}	µg/L	100	GC.3	<100	[NT]	[NT]	LCS-W2	79%
Surrogate o-Terphenyl	%		GC.3	102	[NT]	[NT]	LCS-W2	116%
QUALITY CONTROL HM in water - dissolved	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date prepared	-			08/02/2011	51457-1	08/02/2011 || 08/02/2011	LCS-W1	08/02/2011
Date analysed	-			08/02/2011	51457-1	08/02/2011 || 08/02/2011	LCS-W1	08/02/2011
Arsenic-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	94%
Cadmium-Dissolved	µg/L	0.1	Metals.22 ICP-MS	<0.1	51457-1	<0.1 || <0.1	LCS-W1	94%
Chromium-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	100%
Copper-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	94%
Lead-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	99%
Mercury-Dissolved	µg/L	0.4	Metals.21 CV-AAS	<0.4	51457-1	<0.4 || <0.4	LCS-W1	104%
Nickel-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	96%
Zinc-Dissolved	µg/L	1	Metals.22 ICP-MS	<1	51457-1	<1 || <1	LCS-W1	91%

Client Reference: 15742, Columbia Precinct

QUALITY CONTROL HM in water - dissolved	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date prepared	-	[NT]	[NT]	51457-2	08/02/2011
Date analysed	-	[NT]	[NT]	51457-2	08/02/2011
Arsenic-Dissolved	µg/L	[NT]	[NT]	51457-2	108%
Cadmium-Dissolved	µg/L	[NT]	[NT]	51457-2	90%
Chromium-Dissolved	µg/L	[NT]	[NT]	51457-2	100%
Copper-Dissolved	µg/L	[NT]	[NT]	51457-2	87%
Lead-Dissolved	µg/L	[NT]	[NT]	51457-2	88%
Mercury-Dissolved	µg/L	[NT]	[NT]	51457-2	104%
Nickel-Dissolved	µg/L	[NT]	[NT]	51457-2	90%
Zinc-Dissolved	µg/L	[NT]	[NT]	51457-2	82%

Report Comments:

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

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the 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.