

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	05.01.05 to 22.02.05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

TABLE 1

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
63	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.5	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.5 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
64	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.4	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.4 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
65	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 0.45	0.3 – 0.45	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.45 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, yellow mottled grey, trace of Ironstone gravels	
66	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.4	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.4 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	05.01.05 to 22.02.05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
67	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.4	0.25 – 0.4	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.4 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, grey-brown, trace of Ironstone gravels	
68	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
69	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, yellow mottled grey, trace of Ironstone gravels	
70	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 0.8	NS	(SM) Silty SAND, fine to medium grained, brown	
	0.8 – 1.0	NS	(SM) Silty SAND, fine to medium grained, orange and red-brown	
71	0.0 – 0.15	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.15 – 0.4	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.4 – 1.0	NS	(CI) Silty Sandy CLAY, medium plasticity, grey and pale orange, trace of Sandstone pieces	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	05.01.05 to 22.02.05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
72	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.45	0.3 – 0.45	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.45 – 1.0	NS	(CL-CI) Silty Sandy CLAY, low to medium plasticity, orange and grey	
73	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.45	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.45 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
74	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.5	0.25 – 0.4	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.5 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
75	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.5	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	
	0.5 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	05.01.05 to 22.02.05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
76	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 0.8	0.3 – 0.45	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.8 – 1.0	NS	(CI-CH) Silty CLAY, medium to high plasticity, yellow mottled grey, trace of Ironstone gravels	
77	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 0.5	NS	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
	0.5 – 1.0	NS	(CI) Silty Sandy CLAY, medium plasticity, grey and pale orange, trace of Sandstone pieces	
78	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 0.5	0.3 – 0.45	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	PID Reading = 0.0ppm
	0.5 – 1.0	NS	(CI) Silty Sandy CLAY, medium plasticity, grey and pale orange, trace of Sandstone pieces	
79	0.0 – 0.25	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.25 – 1.0	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of Ironstone gravels	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	05.01.05 to 22.02.05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
80	0.0 – 0.2	0.0 – 0.15	TOPSOIL; Silty Clay, low to medium plasticity, pale brown, trace of roots & root fibres	PID Reading = 0.0ppm
	0.2 – 0.7	0.25 – 0.4	(CI-CH) Silty CLAY, medium to high plasticity, orange mottled grey, trace of Ironstone gravels	
	0.7 – 1.0	NS	(CI) Silty Sandy CLAY, medium plasticity, grey and pale orange, trace of Sandstone pieces	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

Project	Site Background Check	Job No	2883/1-AF
Location	164 Station Street, Penrith	Sampling Dates	22-02-05
Refer to Drawing No	2883/1-AF2 and 2883/1-AF3	Logged & Sampled by	DP

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Bore-hole	Depth (m)	Sample Depth Interval (m)	Material Description	Remarks*
MW1	0.0-0.18	NS	CONCRETE	Monitoring well MW1 installed at 10.0m with 6.0m of screen and 4.0m of Normal Casing
	0.18-3.0	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of siltstone gravels	
	3.0-3.7	NS	(SM) Silty SAND, fine to medium grained, orange and red-brown	
	3.7-10.1	NS	RIVER PEBBLES/GRAVELS	
	10.1-	-	Terminated	
MW2	0.0-0.15	NS	CONCRETE	Monitoring well MW2 installed at 12.0m with 6.0m of screen and 6.0m of Normal Casing
	0.15-1.0	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of siltstone gravels	
	1.0-5.5	NS	(SM) Silty SAND, fine to medium grained, orange and red-brown	
	5.5-10.8	NS	RIVER PEBBLES/GRAVELS	
	10.8-12.0	NS	BEDROCK	
MW3	0.0-0.15	NS	CONCRETE	Monitoring well MW3 installed at 12.0m with 6.0m of screen and 6.0m of Normal Casing
	0.15-0.8	NS	(CL-CI) Silty CLAY, low to medium plasticity, orange-brown, trace of siltstone gravels	
	0.8-4.5	NS	(CI) Silty CLAY, medium plasticity, grey and pale orange, trace of sandstone pieces	
	4.5-12.0	NS	RIVER PEBBLES/GRAVELS	

*Odour (O), Discolouration (D), Petroleum Hydrocarbon Staining (PHS), Asbestos Pieces (ASBP), Ash Material (ASHM), Demolition Waste (DW), Groundwater (GW), Perched Water (PW) PID reading etc.

APPENDIX F

LABORATORY TEST RESULTS CERTIFICATES

CHAIN OF CUSTODY RECORDS

SGS ENVIRONMENTAL SERVICES



14 February 2005

TEST REPORT

Geotechnique

P.O. Box 880

PENRITH

NSW 2751

Your Reference: 2883/1, Penrith

Report Number: 34152

Attention: Paul Gorman

Dear Paul

The following samples were received from you on the date indicated.

Samples:	Qty.	70 Soils, 2 Waters
Date of Receipt of Samples:		07/01/05
Date of Receipt of Instructions:		07/01/05
Date Preliminary Report Faxed:		Not Issued

These samples were analysed in accordance with your written instructions.

A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report.

Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully

SGS ENVIRONMENTAL SERVICES


Jacinta Hurst
Operations Manager

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NATA Endorsed Test Report

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NATA Accredited Laboratory No. 2562

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BTEX in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-5 BH2 soil 0.13-0.28	34152-13 BH4 soil 0.25-0.4	34152-25 BH9 soil 0.15-0.3	34152-46 BH18 soil 0-0.15	34152-63 BH23 soil 0.1-0.25
Benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
Surrogate	%	84	85	84	73	83

BTEX in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-65 BH24 soil 0.1-0.25	34152-68 Duplicate DS1 soil	34152-73 Trip Spike TS1 soil	34152-74 Trip Spike TS2 soil
Benzene	mg/kg	<0.50	<0.50	70%	67%
Toluene	mg/kg	<0.50	<0.50	96%	94%
Ethylbenzene	mg/kg	<0.50	<0.50	87%	82%
Total Xylenes	mg/kg	<1.5	<1.5	89%	86%
Surrogate	%	84	83	117	113



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-9 BH3 soil 0.15-0.3	34152-15 BH5 soil 0.25-0.4	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38
Dichlorodifluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Ethyl benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>m/p</i> -Xylenes	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>o</i> -Xylene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-9 BH3 soil 0.15-0.3	34152-15 BH5 soil 0.25-0.4	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38
Isopropylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>tert</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>sec</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>p</i> -Isopropyltoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Surrogate	% Recovery	76	72	74	74	72
Toluene- <i>d</i> 8 Surrogate 2	% recovery	102	101	107	105	101
4-Bromofluorobenzene Surrogate 3	% recovery	109	115	111	111	105



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-22 BH8 soil 0.22-0.37	34152-28 BH10 soil 0.2-0.35	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15
Dichlorodifluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Ethyl benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>m/p</i> -Xylenes	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>o</i> -Xylene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-22 BH8 soil 0.22-0.37	34152-28 BH10 soil 0.2-0.35	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15
Isopropylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>tert</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>sec</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>p</i> -Isopropyltoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Surrogate	% Recovery	74	75	72	74	72
Toluene- <i>d</i> 8 Surrogate 2	% recovery	103	103	108	103	104
4-Bromofluorobenzene Surrogate 3	% recovery	111	110	136	112	108



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-43 BH16 soil 0.17-0.32	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25
Dichlorodifluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,2-Dichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromomethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>trans</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>cis</i> -1,3-Dichloropropene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Ethyl benzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>m/p</i> -Xylenes	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>o</i> -Xylene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-43 BH16 soil 0.17-0.32	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25
Isopropylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Propylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>tert</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trimethylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>sec</i> -Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
<i>p</i> -Isopropyltoluene	mg/kg	<0.50	9.0	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
n-Butylbenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dibromo-3-chloropropane	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Naphthalene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Surrogate	% Recovery	74	70	72	69	70
Toluene- <i>d</i> 8 Surrogate 2	% recovery	101	106	105	103	101
4-Bromofluorobenzene Surrogate 3	% recovery	97	110	108	108	107



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-69 Duplicate DS2 soil
Dichlorodifluoromethane	mg/kg	<0.50
Chloromethane	mg/kg	<0.50
Vinyl Chloride	mg/kg	<0.50
Bromomethane	mg/kg	<0.50
Chloroethane	mg/kg	<0.50
Trichlorofluoromethane	mg/kg	<0.50
1,1-Dichloroethene	mg/kg	<0.50
<i>trans</i> -1,2-Dichloroethene	mg/kg	<0.50
1,1-Dichloroethane	mg/kg	<0.50
<i>cis</i> -1,2-Dichloroethene	mg/kg	<0.50
Bromochloromethane	mg/kg	<0.50
Chloroform	mg/kg	<0.50
2,2-Dichloropropane	mg/kg	<0.50
1,2-Dichloroethane	mg/kg	<0.50
1,1,1-Trichloroethane	mg/kg	<0.50
1,1-Dichloropropene	mg/kg	<0.50
Carbon tetrachloride	mg/kg	<0.50
Benzene	mg/kg	<0.50
Dibromomethane	mg/kg	<0.50
1,2-Dichloropropane	mg/kg	<0.50
Trichloroethene	mg/kg	<0.50
Bromodichloromethane	mg/kg	<0.50
<i>trans</i> -1,3-Dichloropropene	mg/kg	<0.50
<i>cis</i> -1,3-Dichloropropene	mg/kg	<0.50
1,1,2-Trichloroethane	mg/kg	<0.50
Toluene	mg/kg	<0.50
1,3-Dichloropropane	mg/kg	<0.50
Dibromochloromethane	mg/kg	<0.50
1,2-Dibromoethane	mg/kg	<0.50
Tetrachloroethene	mg/kg	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	<0.50
Chlorobenzene	mg/kg	<0.50
Ethyl benzene	mg/kg	<0.50
Bromoform	mg/kg	<0.50
<i>m/p</i> -Xylenes	mg/kg	<1.0
Styrene	mg/kg	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	<0.50
<i>o</i> -Xylene	mg/kg	<0.50
1,2,3-Trichloropropane	mg/kg	<0.50



VOC's in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-69 Duplicate DS2 soil
Isopropylbenzene	mg/kg	<0.50
Bromobenzene	mg/kg	<0.50
n-Propylbenzene	mg/kg	<0.50
2-Chlorotoluene	mg/kg	<0.50
4-Chlorotoluene	mg/kg	<0.50
1,3,5-Trimethylbenzene	mg/kg	<0.50
<i>tert</i> -Butylbenzene	mg/kg	<0.50
1,2,4-Trimethylbenzene	mg/kg	<0.50
1,3-Dichlorobenzene	mg/kg	<0.50
<i>sec</i> -Butylbenzene	mg/kg	<0.50
1,4-Dichlorobenzene	mg/kg	<0.50
<i>p</i> -Isopropyltoluene	mg/kg	<0.50
1,2-Dichlorobenzene	mg/kg	<0.50
n-Butylbenzene	mg/kg	<0.50
1,2-Dibromo-3-chloropropane	mg/kg	<0.50
1,2,4-Trichlorobenzene	mg/kg	<0.50
Naphthalene	mg/kg	<0.50
Hexachlorobutadiene	mg/kg	<0.50
1,2,3-Trichlorobenzene	mg/kg	<0.50
Surrogate	% Recovery	71
Toluene- <i>d</i> 8 Surrogate 2	% recovery	107
4-Bromofluorobenzene Surrogate 3	% recovery	110



Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-5 BH2 soil 0.13-0.28	34152-9 BH3 soil 0.15-0.3	34152-13 BH4 soil 0.25-0.4	34152-15 BH5 soil 0.25-0.4
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₄₀	mg/kg	<50	<50	<50	<50	<50

Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38	34152-22 BH8 soil 0.22-0.37	34152-25 BH9 soil 0.15-0.3	34152-28 BH10 soil 0.2-0.35
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₄₀	mg/kg	<50	<50	<50	<50	<50

Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15	34152-43 BH16 soil 0.17-0.32	34152-46 BH18 soil 0-0.15
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	90	<50	<50	<50	<50
TRH C ₂₉ - C ₄₀	mg/kg	140	<50	<50	<50	<50

Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25	34152-63 BH23 soil 0.1-0.25
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₄₀	mg/kg	<50	<50	<50	<50	<50



Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS -----	34152-65 BH24	34152-68 Duplicate DS1	34152-69 Duplicate DS2
	-----	soil 0.1-0.25	soil	soil
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50
TRH C ₂₉ - C ₄₀	mg/kg	<50	<50	<50



PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-5 BH2 soil 0.13-0.28	34152-9 BH3 soil 0.15-0.3	34152-13 BH4 soil 0.25-0.4	34152-15 BH5 soil 0.25-0.4
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	%	119	115	112	121	118

PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38	34152-22 BH8 soil 0.22-0.37	34152-25 BH9 soil 0.15-0.3	34152-28 BH10 soil 0.2-0.35
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	%	108	122	122	118	112



PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15	34152-43 BH16 soil 0.17-0.32	34152-46 BH18 soil 0-0.15
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	%	111	104	97	116	100

PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25	34152-63 BH23 soil 0.1-0.25
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	%	97	109	105	105	100



PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-65 BH24 soil 0.1-0.25	34152-68 Duplicate DS1 soil	34152-69 Duplicate DS2 soil
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	0.2	<0.1	<0.1
Surrogate	%	104	102	106



OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-5 BH2 soil 0.13-0.28	34152-9 BH3 soil 0.15-0.3	34152-13 BH4 soil 0.25-0.4	34152-15 BH5 soil 0.25-0.4
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
total PCB (Arochlor 1016 to 1268)	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
<i>Surrogate</i>	%	95	80	91	123	75

OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38	34152-22 BH8 soil 0.22-0.37	34152-25 BH9 soil 0.15-0.3	34152-28 BH10 soil 0.2-0.35
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
total PCB (Arochlor 1016 to 1268)	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
<i>Surrogate</i>	%	128	71	116	77	116

OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15	34152-43 BH16 soil 0.17-0.32	34152-46 BH18 soil 0-0.15
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
total PCB (Arochlor 1016 to 1268)	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
<i>Surrogate</i>	%	129	75	79	97	86

OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25	34152-63 BH23 soil 0.1-0.25
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
total PCB (Arochlor 1016 to 1268)	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
<i>Surrogate</i>	%	83	74	81	102	113

OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-65 BH24 soil 0.1-0.25	34152-68 Duplicate DS1 soil	34152-69 Duplicate DS2 soil
HCB	mg/kg	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2
total PCB (Arochlor 1016 to 1268)	mg/kg	<0.90	<0.90	<0.90

OC Pesticides/PCB in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-65 BH24 soil 0.1-0.25	34152-68 Duplicate DS1 soil	34152-69 Duplicate DS2 soil
<i>Surrogate</i>	%	130	106	77



12 heavy metals in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-5 BH2 soil 0.13-0.28	34152-9 BH3 soil 0.15-0.3	34152-13 BH4 soil 0.25-0.4	34152-15 BH5 soil 0.25-0.4
Arsenic	mg/kg	3	4	<3	4	3
Boron	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	9	14	10	16	10
Copper	mg/kg	9	12	6	19	6
Lead	mg/kg	12	22	7	7	8
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	6	6	5	5	5
Selenium	mg/kg	<2	<2	<2	<2	<2
Tin	mg/kg	15	30	21	40	18
Zinc	mg/kg	17	19	15	16	20

12 heavy metals in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38	34152-22 BH8 soil 0.22-0.37	34152-25 BH9 soil 0.15-0.3	34152-28 BH10 soil 0.2-0.35
Arsenic	mg/kg	<3	<3	<3	<3	3
Boron	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	9	7	5	10	13
Copper	mg/kg	8	8	5	6	7
Lead	mg/kg	10	4	4	7	8
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	5	2	3	5	6
Selenium	mg/kg	<2	<2	<2	<2	<2
Tin	mg/kg	18	16	<10	18	21
Zinc	mg/kg	20	7	6	15	15

12 heavy metals in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15	34152-43 BH16 soil 0.17-0.32	34152-46 BH18 soil 0-0.15
Arsenic	mg/kg	13	4	8	<3	<3
Boron	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	mg/kg	0.9	0.8	<0.5	<0.5	<0.5
Chromium	mg/kg	35	16	9	7	13
Copper	mg/kg	78	63	18	5	17
Lead	mg/kg	230	82	23	6	42
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	7	9	5	3	6
Selenium	mg/kg	<2	<2	<2	<2	<2
Tin	mg/kg	290	74	22	11	23
Zinc	mg/kg	350	190	47	10	70

12 heavy metals in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25	34152-63 BH23 soil 0.1-0.25
Arsenic	mg/kg	5	3	<3	<3	<3
Boron	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	12	11	17	57	49
Copper	mg/kg	18	6	4	40	34
Lead	mg/kg	26	8	7	6	11
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	8	5	8	89	81
Selenium	mg/kg	<2	<2	<2	<2	<2
Tin	mg/kg	29	21	36	68	65
Zinc	mg/kg	33	15	9	58	63

12 heavy metals in soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-65 BH24 soil 0.1-0.25	34152-68 Duplicate DS1 soil	34152-69 Duplicate DS2 soil
Arsenic	mg/kg	<3	<3	9
Boron	mg/kg	<5.0	<5.0	<5.0
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	67	9	10
Copper	mg/kg	61	5	19
Lead	mg/kg	10	8	25
Mercury	mg/kg	<0.05	<0.05	<0.05
Nickel	mg/kg	79	5	5
Selenium	mg/kg	<2	<2	<2
Tin	mg/kg	69	23	24
Zinc	mg/kg	57	16	49



Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-2 BH1 soil 0.7-0.85	34152-9 BH3 soil 0.15-0.3	34152-10 BH3 soil 0.15-0.3	34152-14 BH5 soil 0.25-0.4
Hexavalent Chromium, Cr ⁶⁺	mg/kg	<1.0	[NA]	<1.0	[NA]	[NA]
Total Cyanide	mg/kg	<0.50	[NA]	<0.50	[NA]	[NA]
Alkyl Mercury	µg/kg	[NA]	0.03	[NA]	<0.02	<0.03

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-15 BH5 soil 0.25-0.4	34152-16 BH6 soil 0.12-0.27	34152-17 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38	34152-21 BH7 soil 0.23-0.38
Hexavalent Chromium, Cr ⁶⁺	mg/kg	<1.0	<1.0	[NA]	<1.0	[NA]
Total Cyanide	mg/kg	<0.50	<0.50	[NA]	<0.50	[NA]
Alkyl Mercury	µg/kg	[NA]	[NA]	0.03	[NA]	<0.02

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-22 BH8 soil 0.22-0.37	34152-23 BH8 soil 0.22-0.37	34152-28 BH10 soil 0.2-0.35	34152-29 BH10 soil 0.2-0.35	34152-32 BH11 soil 0-0.15
Hexavalent Chromium, Cr ⁶⁺	mg/kg	<1.0	[NA]	<1.0	[NA]	<1.0
Total Cyanide	mg/kg	<0.50	[NA]	<0.50	[NA]	<0.50
Alkyl Mercury	µg/kg	[NA]	<0.02	[NA]	0.04	[NA]

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-33 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-36 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15	34152-39 BH13 soil 0-0.15
Hexavalent Chromium, Cr ⁶⁺	mg/kg	[NA]	<1.0	[NA]	<1.0	[NA]
Total Cyanide	mg/kg	[NA]	<0.50	[NA]	<0.50	[NA]
Alkyl Mercury	µg/kg	0.06	[NA]	1.4	[NA]	0.28

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-43 BH16 soil 0.17-0.32	34152-44 BH16 soil 0.17-0.32	34152-50 BH19 soil 0-0.15	34152-51 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65
Hexavalent Chromium, Cr ⁶⁺	mg/kg	<1.0	[NA]	<1.0	[NA]	<1.0
Total Cyanide	mg/kg	<0.50	[NA]	<0.50	[NA]	<0.50
Alkyl Mercury	µg/kg	[NA]	0.04	[NA]	<0.04	[NA]

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-55 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-58 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25	34152-61 BH22 soil 0.1-0.25
Hexavalent Chromium, Cr ⁶⁺	mg/kg	[NA]	<1.0	[NA]	<1.0	[NA]
Total Cyanide	mg/kg	[NA]	<0.50	[NA]	<0.50	[NA]
Alkyl Mercury	µg/kg	0.03	[NA]	0.04	[NA]	<0.02

Inorganics Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-69 Duplicate DS2 soil	34152-70 Duplicate DS2 soil
Hexavalent Chromium, Cr ⁶⁺	mg/kg	<1.0	[NA]
Total Cyanide	mg/kg	<0.50	[NA]
Alkyl Mercury	µg/kg	[NA]	0.26



Asbestos Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-1 BH1 soil 0.7-0.85	34152-9 BH3 soil 0.15-0.3	34152-15 BH5 soil 0.25-0.4	34152-16 BH6 soil 0.12-0.27	34152-20 BH7 soil 0.23-0.38
Sample Description		20g Clay	20g Clay	20g Clay	20g Clay	20g Clay
Asbestos ID in soil		No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-22 BH8 soil 0.22-0.37	34152-28 BH10 soil 0.2-0.35	34152-32 BH11 soil 0-0.15	34152-35 BH12 soil 0-0.15	34152-38 BH13 soil 0-0.15
Sample Description		20g Clay	20g Clay	20g Soil	20g Soil	20g Soil
Asbestos ID in soil		No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-43 BH16 soil 0.17-0.32	34152-50 BH19 soil 0-0.15	34152-54 BH20 soil 0.5-0.65	34152-57 BH21 soil 0.1-0.25	34152-60 BH22 soil 0.1-0.25
Sample Description		20g Soil	20g Soil	20g Clay	20g Clay	20g Clay
Asbestos ID in soil		No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34152-69 Duplicate DS2 soil
Sample Description		20g Soil
Asbestos ID in soil		No asbestos detected

Moisture	UNITS	34152-1	34152-5	34152-9	34152-13	34152-15
Our Reference:	-----	BH1	BH2	BH3	BH4	BH5
Your Reference	-----	soil	soil	soil	soil	soil
Sample Type						
Depth		0.7-0.85	0.13-0.28	0.15-0.3	0.25-0.4	0.25-0.4
Moisture	%	13	15	15	27	14

Moisture	UNITS	34152-16	34152-20	34152-22	34152-25	34152-28
Our Reference:	-----	BH6	BH7	BH8	BH9	BH10
Your Reference	-----	soil	soil	soil	soil	soil
Sample Type						
Depth		0.12-0.27	0.23-0.38	0.22-0.37	0.15-0.3	0.2-0.35
Moisture	%	14	6.9	13	11	17

Moisture	UNITS	34152-32	34152-35	34152-38	34152-43	34152-46
Our Reference:	-----	BH11	BH12	BH13	BH16	BH18
Your Reference	-----	soil	soil	soil	soil	soil
Sample Type						
Depth		0-0.15	0-0.15	0-0.15	0.17-0.32	0-0.15
Moisture	%	13	12	11	6.7	6.5

Moisture	UNITS	34152-50	34152-54	34152-57	34152-60	34152-63
Our Reference:	-----	BH19	BH20	BH21	BH22	BH23
Your Reference	-----	soil	soil	soil	soil	soil
Sample Type						
Depth		0-0.15	0.5-0.65	0.1-0.25	0.1-0.25	0.1-0.25
Moisture	%	7.3	14	12	8.9	6.2

Moisture	UNITS	34152-65	34152-68	34152-69
Our Reference:	-----	BH24	Duplicate DS1	Duplicate DS2
Your Reference	-----	soil	soil	soil
Sample Type				
Depth		0.1-0.25		
Moisture	%	4.7	11	10

Method ID	Methodology Summary
SEO-017	BTEX/TRH C6-C9 - Determination by Purge and Trap Gas Chromatography with Flame Ionisation Detection (FID) and Photo Ionisation Detection (PID). The surrogate spike used is aaa-trifluorotoluene.
SEO-019	VOCs by P&T GC/MS- Determination of Volatile Organic Compounds by Purge and Trap then Gas Chromatography / Mass spectrometry following extraction with methanol for soils. Waters are introduced directly on the purge and trap.
SEO-020	TRH - Determination of Total Recoverable Hydrocarbons by gas chromatography following extraction with DCM/Acetone for solids and DCM for liquids.
SEO-030	PAHs by GC/MS - Determination of Polynuclear Aromatic Hydrocarbons (PAH's) by Gas Chromatography / Mass Spectrometry following extraction with dichloromethane or dichloromethane/acetone. The surrogate spike used is p-Terphenyl-d14.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC /ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.
SEM-010	Metals - Determination of various metals by ICP-AES following aqua regia digest.
Ext-034	Analysed by MGT, Victoria.
SEM-005	Mercury - Determination of Mercury by Cold Vapour Generation Atomic Absorption Spectroscopy.
SEI-042	Hexavalent Chromium (Cr6+) - determined colourimetrically. Soils are extracted with warm water first, in accordance with APHA 20th ED, 3500-Cr-C.
SEI-043	Cyanide - determined colourimetrically, following steam stripping from an acidified sample. Based on APHA 20th ED, 4500-CN_C,E.
Ext-022	Subcontracted to Ansto.
SASB-002	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques. Accreditation does not cover the identification of Synthetic Mineral Fibre.
SEP-001	Air Dry - Cover air drying at 40 C, moisture content at 103 C - 105 C, wet slurring, compositing and preparation of a 1:5 soil suspension.



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Benzene	mg/kg	0.5	SEO-017	<0.50	34152-65	<0.50 <0.50	34152-68	79 67 RPD: 16
Toluene	mg/kg	0.5	SEO-017	<0.50	34152-65	<0.50 <0.50	34152-68	83 70 RPD: 17
Ethylbenzene	mg/kg	0.5	SEO-017	<0.50	34152-65	<0.50 <0.50	34152-68	80 71 RPD: 12
Total Xylenes	mg/kg	1.5	SEO-017	<1.5	34152-65	<1.5 <1.5	34152-68	82 69 RPD: 17
Surrogate	%		SEO-017	[NT]	34152-65	84 84 RPD: 0	34152-68	71 89 RPD: 22
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOC's in soil								
Dichlorodifluoromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Chloromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Vinyl Chloride	mg/kg	0.50	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Bromomethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Chloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Trichlorofluoromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1-Dichloroethene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
trans-1,2-Dichloroethene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1-Dichloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
cis-1,2-Dichloroethene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Bromochloromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Chloroform	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	76 78 RPD: 3
2,2-Dichloropropane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2-Dichloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	74 75 RPD: 1
1,1,1-Trichloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1-Dichloropropene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Carbon tetrachloride	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Benzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	85 90 RPD: 6
Dibromomethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2-Dichloropropane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Trichloroethene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	100 105 RPD: 5
Bromodichloromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
trans-1,3-Dichloropropene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
cis-1,3-Dichloropropene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1,2-Trichloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Toluene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	122 124 RPD: 2
1,3-Dichloropropane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Dibromochloromethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2-Dibromoethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Tetrachloroethene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1,1,2-Tetrachloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Chlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	141 153 RPD: 8

QUALITY CONTROL VOC's in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Ethyl benzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	126 135 RPD: 7
Bromoform	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
m/p-Xylenes	mg/kg	1.0	SEO-019	<1.0	34152-20	<1.0 <1.0	Sand	125 136 RPD: 8
Styrene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,1,2,2-Tetrachloroethane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
o-Xylene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	112 126 RPD: 12
1,2,3-Trichloropropane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Isopropylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Bromobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
n-Propylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
2-Chlorotoluene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
4-Chlorotoluene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,3,5-Trimethylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
tert-Butylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2,4-Trimethylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,3-Dichlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
sec-Butylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,4-Dichlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
p-Isopropyltoluene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2-Dichlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
n-Butylbenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2-Dibromo-3-chloropropane	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2,4-Trichlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Naphthalene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Hexachlorobutadiene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
1,2,3-Trichlorobenzene	mg/kg	0.5	SEO-019	<0.50	34152-20	<0.50 <0.50	Sand	[NT]
Surrogate	% Recover y		SEO-019	[NT]	34152-20	72 71 RPD: 1	Sand	74 72 RPD: 3
Toluene-d8 Surrogate 2	% recover y		SEO-019	[NT]	34152-20	101 102 RPD: 1	Sand	107 106 RPD: 1
4-Bromofluorobenzene Surrogate 3	% recover y		SEO-019	[NT]	34152-20	105 97 RPD: 8	Sand	107 111 RPD: 4



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Total Recoverable Hydrocarbons in Soil								
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-017	<20	34152-20	<20 <20	Sand	70 76 RPD: 8
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	34152-20	<20 <20	Sand	66 70 RPD: 6
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	34152-20	<50 <50	Sand	87 86 RPD: 1
TRH C ₂₉ - C ₄₀	mg/kg	50	SEO-020	<50	34152-20	<50 <50	Sand	149 147 RPD: 1
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Naphthalene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	99 102 RPD: 3
Acenaphthylene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	87 89 RPD: 2
Acenaphthene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	100 102 RPD: 2
Fluorene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Phenanthrene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	85 88 RPD: 3
Anthracene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	73 76 RPD: 4
Fluoranthene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	87 89 RPD: 2
Pyrene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	110 111 RPD: 1
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Chrysene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.2	34152-20	<0.2 <0.2	Sand	[NT]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	34152-20	<0.05 <0.05	Sand	122 128 RPD: 5
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.1	34152-20	<0.1 <0.1	Sand	[NT]
Surrogate	%		SEO-030	[NT]	34152-20	122 118 RPD: 3	Sand	115 121 RPD: 5

QUALITY CONTROL OC Pesticides/PCB in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
HCB	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	[NT]
BHC (other than g-BHC)	mg/kg	0.3	SEO-005	<0.3	34152-65	<0.3 <0.3	Sand	81 74 RPD: 9
<i>gamma</i> -BHC(Lindane)	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	[NT]
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	[NT]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	82 74 RPD: 10
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	[NT]
Aldrin	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	82 74 RPD: 10
Dieldrin	mg/kg	0.05	SEO-005	<0.05	34152-65	<0.05 <0.05	Sand	84 76 RPD: 10
Endrin	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	[NT]
Endosulfan	mg/kg	0.2	SEO-005	<0.2	34152-65	<0.2 <0.2	Sand	[NT]
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	34152-65	<0.1 <0.1	Sand	94 85 RPD: 10
DDD	mg/kg	0.2	SEO-005	<0.2	34152-65	<0.2 <0.2	Sand	[NT]
DDE	mg/kg	0.2	SEO-005	<0.2	34152-65	<0.2 <0.2	Sand	[NT]
DDT	mg/kg	0.2	SEO-005	<0.2	34152-65	<0.2 <0.2	Sand	77 69 RPD: 11
Chlordane (<i>trans&cis</i>)	mg/kg	0.2	SEO-005	<0.2	34152-65	<0.2 <0.2	Sand	[NT]
total PCB (Arochlor 1016 to 1268)	mg/kg	0.9	SEO-005	<0.90	34152-65	<0.90 <0.90	Sand	68 78 RPD: 14
<i>Surrogate</i>	%		SEO-005	[NT]	34152-65	130 65 RPD: 67	Sand	106 97 RPD: 9
QUALITY CONTROL 12 heavy metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arsenic	mg/kg	3	SEM-010	<3	34152-1	3 3 RPD: 0	34152-5	89 89 RPD: 0
Boron	mg/kg	5	Ext-034	<5.0	34152-1	<5.0 [N/T]	34152-5	82 [N/T]
Cadmium	mg/kg	0.5	SEM-010	<0.5	34152-1	<0.5 <0.5	34152-5	94 94 RPD: 0
Chromium	mg/kg	0.5	SEM-010	<0.5	34152-1	9 9 RPD: 0	34152-5	89 89 RPD: 0
Copper	mg/kg	0.5	SEM-010	<0.5	34152-1	9 9 RPD: 0	34152-5	92 92 RPD: 0
Lead	mg/kg	2	SEM-010	<2	34152-1	12 11 RPD: 9	34152-5	85 84 RPD: 1
Mercury	mg/kg	0.05	SEM-005	<0.05	34152-1	<0.05 <0.05	34152-5	88 95 RPD: 8
Nickel	mg/kg	0.2	SEM-010	<0.2	34152-1	6 6 RPD: 0	34152-5	87 86 RPD: 1
Selenium	mg/kg	2	SEM-010	<2	34152-1	<2 <2	34152-5	87 84 RPD: 4
Tin	mg/kg	0.5	Ext-034	<0.5	34152-1	15 [N/T]	34152-5	82 [N/T]
Zinc	mg/kg	0.5	SEM-010	<0.5	34152-1	17 17 RPD: 0	34152-5	91 88 RPD: 3



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Inorganics								
Hexavalent Chromium, Cr ⁶⁺	mg/kg	1	SEI-042	<1.0	34152-32	<1.0 [N/T]	34152-38	[NT]
Total Cyanide	mg/kg	0.5	SEI-043	<0.50	34152-32	<0.50 <0.50	34152-38	83 83 RPD: 0
Alkyl Mercury	µg/kg		Ext-022	<0.01	[NT]	[NT]	34152-38	[NT]
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD		
Moisture								
Moisture	%		SEP-001	[NT]	34152-20	6.9 6.9 RPD: 0		
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD			
Total Recoverable Hydrocarbons in Soil								
TRH C6 - C9 P&T	mg/kg	34152-65	<20 <20	34152-68	82 70 RPD: 16			
TRH C10 - C14	mg/kg	34152-65	<20 <20	34152-68	87 85 RPD: 2			
TRH C15 - C28	mg/kg	34152-65	<50 <50	34152-68	93 91 RPD: 2			
TRH C29 - C40	mg/kg	34152-65	<50 <50	34152-68	94 93 RPD: 1			
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD			
PAHs in Soil								
Naphthalene	mg/kg	34152-65	<0.1 <0.1	34152-69	96 97 RPD: 1			
Acenaphthylene	mg/kg	34152-65	<0.1 <0.1	34152-69	83 83 RPD: 0			
Acenaphthene	mg/kg	34152-65	<0.1 <0.1	34152-69	98 96 RPD: 2			
Fluorene	mg/kg	34152-65	<0.1 <0.1	34152-69	[NT]			
Phenanthrene	mg/kg	34152-65	<0.1 0.2	34152-69	89 86 RPD: 3			
Anthracene	mg/kg	34152-65	<0.1 <0.1	34152-69	79 77 RPD: 3			
Fluoranthene	mg/kg	34152-65	<0.1 0.3	34152-69	89 85 RPD: 5			
Pyrene	mg/kg	34152-65	<0.1 0.3	34152-69	113 108 RPD: 5			
Benzo[a]anthracene	mg/kg	34152-65	<0.1 0.1	34152-69	[NT]			
Chrysene	mg/kg	34152-65	<0.1 0.2	34152-69	[NT]			
Benzo[b,k]fluoranthene	mg/kg	34152-65	<0.2 0.3	34152-69	[NT]			
Benzo[a]pyrene	mg/kg	34152-65	0.05 0.2 RPD: 120	34152-69	131 126 RPD: 4			
Indeno[123-cd]pyrene	mg/kg	34152-65	<0.1 0.2	34152-69	[NT]			
Dibenzo[ah]anthracene	mg/kg	34152-65	<0.1 <0.1	34152-69	[NT]			
Benzo[ghi]perylene	mg/kg	34152-65	0.2 0.3 RPD: 40	34152-69	[NT]			
Surrogate	%	34152-65	104 104 RPD: 0	34152-69	93 97 RPD: 4			

QUALITY CONTROL OC Pesticides/PCB in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
HCB	mg/kg	34152-28	<0.1 <0.1	Sand	[NT]
BHC (other than g-BHC)	mg/kg	34152-28	<0.3 <0.3	Sand	98 83 RPD: 17
<i>gamma</i> -BHC(Lindane)	mg/kg	34152-28	<0.1 <0.1	Sand	[NT]
Heptachlor Epoxide	mg/kg	34152-28	<0.1 <0.1	Sand	[NT]
Heptachlor	mg/kg	34152-28	<0.1 <0.1	Sand	94 81 RPD: 15
Methoxychlor	mg/kg	34152-28	<0.1 <0.1	Sand	[NT]
Aldrin	mg/kg	34152-28	<0.1 <0.1	Sand	95 82 RPD: 15
Dieldrin	mg/kg	34152-28	<0.05 <0.05	Sand	101 87 RPD: 15
Endrin	mg/kg	34152-28	<0.1 <0.1	Sand	[NT]
Endosulfan	mg/kg	34152-28	<0.2 <0.2	Sand	[NT]
Endosulfan Sulphate	mg/kg	34152-28	<0.1 <0.1	Sand	124 100 RPD: 21
DDD	mg/kg	34152-28	<0.2 <0.2	Sand	[NT]
DDE	mg/kg	34152-28	<0.2 <0.2	Sand	[NT]
DDT	mg/kg	34152-28	<0.2 <0.2	Sand	90 74 RPD: 20
Chlordane (<i>trans&cis</i>)	mg/kg	34152-28	<0.2 <0.2	Sand	[NT]
total PCB (Arochlor 1016 to 1268)	mg/kg	34152-28	<0.90 <0.90	Sand	103 117 RPD: 13
<i>Surrogate</i>	%	34152-28	116 77 RPD: 40	Sand	126 115 RPD: 9



QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
12 heavy metals in soil					
Arsenic	mg/kg	34152-65	<3 <3	34152-68	94 91 RPD: 3
Boron	mg/kg	34152-65	<5.0 [N/T]	34152-68	84 [N/T]
Cadmium	mg/kg	34152-65	<0.5 <0.5	34152-68	99 97 RPD: 2
Chromium	mg/kg	34152-65	67 72 RPD: 7	34152-68	94 92 RPD: 2
Copper	mg/kg	34152-65	61 61 RPD: 0	34152-68	96 95 RPD: 1
Lead	mg/kg	34152-65	10 11 RPD: 10	34152-68	90 88 RPD: 2
Mercury	mg/kg	34152-65	<0.05 <0.05	34152-68	76 76 RPD: 0
Nickel	mg/kg	34152-65	79 84 RPD: 6	34152-68	93 91 RPD: 2
Selenium	mg/kg	34152-65	<2 <2	34152-68	90 87 RPD: 3
Tin	mg/kg	34152-65	69 [N/T]	34152-68	80 [N/T]
Zinc	mg/kg	34152-65	57 63 RPD: 10	34152-68	95 94 RPD: 1
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Inorganics			Base + Duplicate + %RPD		Duplicate + %RPD
Hexavalent Chromium, Cr ⁶⁺	mg/kg	[NT]	[NT]	Batch	98 86 RPD: 13
Total Cyanide	mg/kg	[NT]	[NT]	Batch	[NT]
Alkyl Mercury	µg/kg	[NT]	[NT]	Batch	[NT]
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate		
Moisture			Base + Duplicate + %RPD		
Moisture	%	34152-28	17 17 RPD: 0		
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate		
12 heavy metals in soil			Base + Duplicate + %RPD		
Arsenic	mg/kg	34152-9	<3 [N/T]		
Boron	mg/kg	34152-9	<5.0 <5.0		
Cadmium	mg/kg	34152-9	<0.5 [N/T]		
Chromium	mg/kg	34152-9	10 [N/T]		
Copper	mg/kg	34152-9	6 [N/T]		
Lead	mg/kg	34152-9	7 [N/T]		
Mercury	mg/kg	34152-9	<0.05 [N/T]		
Nickel	mg/kg	34152-9	5 [N/T]		
Selenium	mg/kg	34152-9	<2 [N/T]		
Tin	mg/kg	34152-9	21 20 RPD: 5		
Zinc	mg/kg	34152-9	15 [N/T]		



QUALITY CONTROL Moisture	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Moisture	%	34152-65	4.7 4.7 RPD: 0
QUALITY CONTROL 12 heavy metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Arsenic	mg/kg	34152-25	<3 [N/T]
Boron	mg/kg	34152-25	<5.0 <5.0
Cadmium	mg/kg	34152-25	<0.5 [N/T]
Chromium	mg/kg	34152-25	10 [N/T]
Copper	mg/kg	34152-25	6 [N/T]
Lead	mg/kg	34152-25	7 [N/T]
Mercury	mg/kg	34152-25	<0.05 [N/T]
Nickel	mg/kg	34152-25	5 [N/T]
Selenium	mg/kg	34152-25	<2 [N/T]
Tin	mg/kg	34152-25	18 15 RPD: 18
Zinc	mg/kg	34152-25	15 [N/T]
QUALITY CONTROL 12 heavy metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Arsenic	mg/kg	34152-69	9 [N/T]
Boron	mg/kg	34152-69	<5.0 <5.0
Cadmium	mg/kg	34152-69	<0.5 [N/T]
Chromium	mg/kg	34152-69	10 [N/T]
Copper	mg/kg	34152-69	19 [N/T]
Lead	mg/kg	34152-69	25 [N/T]
Mercury	mg/kg	34152-69	<0.05 [N/T]
Nickel	mg/kg	34152-69	5 [N/T]
Selenium	mg/kg	34152-69	<2 [N/T]
Tin	mg/kg	34152-69	24 23 RPD: 4
Zinc	mg/kg	34152-69	49 [N/T]



Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested

[HBG] : Results not Reported due to High Background Interference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Result Comments

ASBESTOS NB. Even after disintegration of certain bulk samples (vinyl tiles and bituminous type materials), the detection, of fibres may be difficult when using Polarised Light Microscopy and Dispersion Staining Techniques. This may be due to the matrix of the sample (uneven distribution), or fine fibres that are difficult to detect and positively identify.

Boron & Tin analysed by MGT, Vic. Report No. 178675P

Alkyl Mercury analysed by CSIRO / ANSTO.

Date Organics extraction commenced: 11/1/04

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Dioxins/Furans and PAH in XAD and PUF).

Quality Control Protocol

Reagent Blank: Sample free reagents carried through the preparation/extraction/digestion procedure and analysed at the beginning of every sample batch analysis. For larger projects, a reagent blank is prepared and analysed with every 20 samples.

Duplicate: A separate portion of a sample being analysed which is treated the same as the other samples in the batch. A duplicate is prepared at least every 20 samples.

Matrix Spike Duplicates: Sample replicates spiked with identical concentrations of target analyte(s). The spiking occurs during the sample preparation and prior to the extraction/digestion procedure. They are used to document the precision and bias of a method in a given sample matrix. Where there is not enough sample available to prepare a spiked sample, another known soil/sand or water (or Milli-Q water) may be used. A duplicate spiked sample is prepared at least every 20 samples.

Surrogate Spike: Added to all samples requiring analysis for organics (where relevant) prior to extraction. Used to determine the extraction efficiency. They are organic compounds which are similar to the target analyte(s) in chemical composition and behaviour in the analytical process, but which are not normally found in environmental samples.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) after the extraction process; the compounds serve to give a standard of retention time and response, which is invariant from run-to-run with the instruments.

Control Standards: Prepared from a source independent of the calibration standards. At least one control standard is included in each run to confirm calibration validity.

Additional QC Samples: A calibration standard and blank are run after every 20 samples of an instrumental analysis run to assess analytical drift.

Lenko Place
PENRITH NSW 2750 P O Box 880
PENRITH NSW 2751

TO: SGS ENVIRONMENTAL SERVICES

BOTANY TECHNICAL CENTRE
ORICA INDUSTRIAL PARK, GATE 3, DENISON STREET
MATRAVILLE NSW 2036

PH: 02 9666 1426 FAX: 02 9666 1364

ATTN: TANIA NOTARAS

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

Sampling Date: 5+6 January 2005 Job No: 2883/1

Sampled By: DP Project:

Project Manager: PG Location: Penrith

Page 1 of 1

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details			Results required by: FRIDAY, 14 - 01 - 2005											
Location	Depth (m)	Sample type		Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn	OCP	PCB	TPH* & BTEX	PAH	VOC (54 analytes)	Hexavalent Chromium	Cyanide	Asbestos	Alkyl Mercury	KEEP SAMPLE
		Soil	Water											
BH1	1	0.7-0.85	USG	✓	✓	✓	✓	✓	✓	✓	✓	✓		YES
BH1	2	0.7-0.85	DSP										✓	YES
BH1	3	0.85-1.3	USG											YES
BH1	4	1.35-1.5	USG											YES
BH2	5	0.13-0.28	USG	✓	✓	✓	✓	✓						YES
BH2	6	0.28-0.8	USG											YES
BH2	7	0.8-1.3	USG											YES
BH2	8	1.35-1.5	USG											YES
BH3	9	0.15-0.3	USG	✓	✓	✓	✓	✓	✓	✓	✓	✓		YES
BH3	10	0.15-0.3	DSP				NOTE : EXPECT SOME VOC IN THE ABOVE SAMPLE					✓	YES	
BH3	11	0.45-0.6	USG											YES
BH3	12	1.0-1.15	USG											YES

Relinquished by

Signature

Date

Name

Signature

Received by

Date

Legend:

WG

Water sample, glass bottle

USG

Undisturbed soil sample (glass jar)

DSP

Disturbed soil sample (small plastic bag)

* Purge & Trap

@ mole H⁺/tonne

WP

Water sample, plastic bottle

DSG

Disturbed soil sample (glass jar)

✓

Test required

Geotechnique Screen

Lenko Place
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Page 2 of 7

TO: SGS ENVIRONMENTAL SERVICES
BOTANY TECHNICAL CENTRE
ORICA INDUSTRIAL PARK, GATE 3, DENISON STREET
MATRAVILLE NSW 2036

PH: 02 9666 1426 FAX: 02 9666 1364

Project Manager: PG Location: Penrith

Sampling Date: 5+6 January 2005 Job No: 2883/1

Sampled By: DP Project:

ATTN: TANIA NOTARAS

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details		Sample type											
Location	Depth (m)	Soil	Water	Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn	OCP	PCB	TPH* & BTEX	PAH	VOC (54 analytes)	Hexavalent Chromium	Cyanide	Asbestos	Alkyl Mercury
BH4	0.25-0.4	USG		✓	✓	✓	✓	✓					YES
BH5	0.25-0.4	DSP											YES
BH5	0.25-0.4	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	YES
BH6	0.12-0.27	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	YES
BH6	0.12-0.27	DSP											YES
BH6	0.27-0.8	USG											YES
BH6	0.85-1.0	USG											YES
BH7	0.23-0.38	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	YES
BH7	0.23-0.38	DSP											YES
BH8	0.22-0.37	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	YES
BH8	0.22-0.37	DSP											YES
BH8	0.45-0.6	USG											YES

Relinquished by

Name: PAUL GORMAN Signature: *Paul Gorman* Date: 7/01/2005

Received by: Name: *Paul Gorman* Signature: *Paul Gorman* Date: 11.1.05

Legend:

WG Water sample, glass bottle USG Undisturbed soil sample (glass jar) DSP Disturbed soil sample (small plastic bag) * Purge & Trap @ mole H⁺/lone

WP Water sample, plastic bottle DSG Disturbed soil sample (glass jar) ✓ Test required # Geotechnique Screen

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MATRAVILLE NSW 2036

PH: 02 9666 1426 FAX: 02 9666 1364

ATTN: TANIA NOTARAS

Page 3 of 1

Sampling Date: 5+6 January 2005 Job No: 2883/1

Sampled By: DP Project:

Project Manager: PG Location: Penrith

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details		Sample type											
Location	Depth (m)	Soil	Water	Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn	OCP	PCB	TPH* & BTEX	PAH	VOC (54 analytes)	Hexavalent Chromium	Cyanide	Asbestos	Alkyl Mercury
BH9	0.15-0.3	USG		✓	✓	✓	✓	✓					
BH9	0.4-0.65	USG											
BH9	0.7-0.85	USG											
BH10	0.2-0.35	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BH10	0.2-0.35	DSP											
BH10	0.35-0.9	USG											
BH10	0.95-1.1	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BH11	0-0.15	USG											
BH11	0-0.15	DSP											
BH11	0.2-0.35	USG											
BH12	0-0.15	USG		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BH12	0-0.15	DSP											

Relinquished by

Name	Signature	Date	Name	Signature	Date
PAUL GORMAN	<i>Paul Gorman</i>	7/01/2005			

Legend:

WG	Water sample, glass bottle	USG	Undisturbed soil sample (glass jar)	DSP	✓	Disturbed soil sample (small plastic bag)	* Purge & Trap	@ mole H ⁺ /kg
WP	Water sample, plastic bottle	DSG	Disturbed soil sample (glass jar)			Test required	# Geotechnique Screen	

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BOTANY TECHNICAL CENTRE
ORICA INDUSTRIAL PARK, GATE 3, DENISON STREET
MATRAVILLE NSW 2036

PH: 02 9666 1426 **FAX:** 02 9666 1364

ATTN: TANIA NOTARAS

Page 4 **of** 7

Sampling Date: 5+6 January 2005 **Job No:** 2883/1

Sampled By: DP **Project:**

Project Manager: PG **Location:** Penrith

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details		Sample type		Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn	OCP	PCB	TPH* & BTEX	PAH	VOC (54 analytes)	Hexavalent Chromium	Cyanide	Asbestos	Alkyl Mercury	KEP SAMPLE
Location	Depth (m)	Soil	Water											
BH12	0.2-0.7	USG												YES
BH13	0-0.15	USG		✓	✓	✓	✓			✓		✓		YES
BH13	0-0.15	DSP											✓	YES
BH13	0.25-0.4	USG												YES
BH14	0-0.15	USG												YES
BH15	0-0.15	USG												YES
BH16	0.17-0.32	USG		✓	✓	✓	✓			✓		✓		YES
BH16	0.17-0.32	DSP												YES
BH17	0-0.15	USG												YES
BH18	0-0.15	USG		✓	✓	✓	✓							YES
BH18	0-0.15	DSP												YES
BH18	0.15-0.7	USG												YES

Relinquished by

Signature

Name

Date

Received by

Signature

Name

Date

Legend:

WG

Water sample, glass bottle

USG

Undisturbed soil sample (glass jar)

DSP

Disturbed soil sample (small plastic bag)

* Purge & Trap

@ mole H⁺/litre

WP

Water sample, plastic bottle

DSG

Disturbed soil sample (glass jar)

✓

Test required

Geotechnique Screen

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ORICA INDUSTRIAL PARK, GATE 3, DENISON STREET
MATRAVILLE NSW 2036

PH: 02 9666 1426 FAX: 02 9666 1364

ATTN: TANIA NOTARAS

Page 5 of 7

Sampling Date: 5+6 January 2005 Job No: 2883/1

Sampled By: DP Project:

Project Manager: PG Location: Penrith

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details		Sample type		Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn										VOC (54 analytes)				Hexavalent Chromium		Cyanide		Asbestos		Alkyl Mercury		ICP SARL	
Location	Depth (m)	Soil	Water																								
BH18	0.7-0.85	USG																									
BH19	0-0.15	USG																									
BH19	0-0.15	DSP																									
BH19	0.15-0.5	USG																									
BH19	0.55-0.7	USG																									
BH20	0.5-0.65	USG																									
BH20	0.5-0.65	DSP																									
BH20	0.75-0.95	USG																									
BH21	0.1-0.25	USG																									
BH21	0.1-0.25	DSP																									
BH21	0.35-0.5	USG																									
BH22	0.1-0.25	USG																									

Relinquished by

Signature

Date

Name

Signature

Received by

Date

Legend:

WG Water sample, glass bottle USG Undisturbed soil sample (glass jar) DSP Disturbed soil sample (small plastic bag) * Purge & Trap @ mole H⁺/kne
WP Water sample, plastic bottle DSG Disturbed soil sample (glass jar) Test required # Geotechnique Screen

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Page 6 of 7

TO: SGS ENVIRONMENTAL SERVICES
BOTANY TECHNICAL CENTRE
ORICA INDUSTRIAL PARK, GATE 3, DENISON STREET
MATRIVILLE NSW 2036

Sampling Date: 5+6 January 2005 Job No: 2883/1

Sampled By: DP Project:

PH: 02 9666 1426 FAX: 02 9666 1364

Project Manager: PG Location: Penrith

ATTN: TANIA NOTARAS

Results required by: FRIDAY, 14 - 01 - 2005

Sampling details		Sample type		Heavy Metals As, B, Cd, Cr, Cu, Pb Hg, Ni, Se, Sn and Zn	OCP	PCB	TPH* & BTEX	PAH	VOC (54 analytes)	Hexavalent Chromium	Cyanide	Asbestos	Alkyl Mercury	KSP SHE
Location	Depth (m)	Soil	Water											
BH22	0.1-0.25		DSP										✓	低
BH22	0.3-0.45		USG											低
BH23	0.1-0.25		USG	✓	✓		✓							低
BH23	0.3-0.45		USG											低
BH24	0.1-0.25		USG	✓	✓		✓							低
BH24	0.25-0.75		USG											低
BH24	0.75-1.2		USG											低
Duplicate DS1			USG	✓	✓		✓							低
Duplicate DS2			USG	✓	✓		✓							低
Duplicate DS2			DSP							✓	✓		✓	低
Rinsate R1			WP											低
Rinsate R2			WP											低

Relinquished by

Name: PAUL GORMAN
Signature: 
Date: 7/01/2005

Received by

Name: 
Signature: 
Date: 

Legend:

WG Water sample, glass bottle USG Undisturbed soil sample (glass jar) DSP Disturbed soil sample (small plastic bag) * Purge & Trap
WP Water sample, plastic bottle DSG Disturbed soil sample (glass jar) ✓ Test required # Geotechnique Screen

@ mole H₂O



SGS Environmental Services
Botany Industrial Park
Gate 3, Denison St, Matraville NSW 2036
Telephone Number : (61 2) 9666 1426
Fax Number : (61 2) 9666 1364

SAMPLE RECEIPT CONFIRMATION

COMPANY : Geotechnique FAX NO. : 02 4722 6161
ATTENTION : Paul Gorman PAGES : 1
FROM : Aileen Hie DATE : 10/01/05

This is to confirm that samples for Project **2883/1, Penrith** were received on **07/01/05** the results are expected to be ready on **14/01/05**. Please quote SGS Reference: **34152** when making enquiries regarding this project. Please refer to below which details information about the integrity of the samples and other useful information.

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

Samples received in good order:	YES
Samples received in correct containers:	YES
Samples received without headspace:	YES
Sufficient quantity supplied:	YES
Upon receipt sample temperature:	Cool
Cooling Method:	Ice Pack
Sample containers provided by:	SGS
Samples Clearly Labelled:	YES
Turnaround time requested:	Standard
Completed documentation received:	YES

Comments:

The signed chain of custody will be returned to you with the original report.

The contents of this facsimile (including attachments) are privileged and confidential. Any unauthorised use of the contents is expressly prohibited. If you have received the document in error, please advise by telephone (reverse charges) immediately then shred the document. Thank you.

24 January 2005

TEST REPORT

Geotechnique

P.O. Box 880

PENRITH

NSW 2751

Your Reference: 2883/1, Penrith

Report Number: 34227

Attention: Paul Gorman

Dear Paul

The following samples were received from you on the date indicated.

Samples:	Qty.	82 Soils, 2 Waters
Date of Receipt of Samples:		11/01/05
Date of Receipt of Instructions:		12/01/05
Date Preliminary Report Faxed:		Not Issued

These samples were analysed in accordance with your written instructions.

A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report.

Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully

SGS ENVIRONMENTAL SERVICES


Jacinta Hurst
Operations Manager

Page 1 of 15



NATA Endorsed Test Report

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NATA Accredited Laboratory No. 2562

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Botany Industrial Park Gate 3, Denison Street, Matraville 2036 NSW Australia
t +61 (0)2 9666 1426 f +61 (0)2 9666 1364 url www.sgs.com

BTEX in Soil Our Reference: Your Reference	UNITS -----	34227-1 BH25	34227-8 BH31	34227-83 Trip Spike TS3	34227-84 Trip Spike TS4
Sample Type Depth	-----	soil 0.1-0.25	soil 0-0.15	soil	soil
Benzene	mg/kg	<0.50	<0.50	89%	84%
Toluene	mg/kg	<0.50	<0.50	68%	95%
Ethylbenzene	mg/kg	<0.50	<0.50	83%	106%
Total Xylenes	mg/kg	<1.5	<1.5	91%	101%
Surrogate	%	116	117	102	92



Total Recoverable Hydrocarbons in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34227-1 BH25 soil 0.1-0.25	34227-8 BH31 soil 0-0.15
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	160	<50
TRH C ₂₉ - C ₄₀	mg/kg	550	<50



PAHs in Soil Our Reference: Your Reference Sample Type Depth	UNITS ----- -----	34227-1 BH25 soil 0.1-0.25	34227-8 BH31 soil 0-0.15
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo[a]anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1
Surrogate	%	88	108



OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	34227-1 BH25	34227-8 BH31	34227-85 Duplicate DS4 soil	34227-86 Duplicate DS5 soil	34227-87 Composite A soil
Sample Type Depth	-----	soil 0.1-0.25	soil 0-0.15			
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
<i>Surrogate</i>	%	98	118	111	112	88

OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	34227-88 Composite B soil	34227-90 Composite D soil	34227-92 Composite F soil	34227-93 Composite G soil	34227-95 Composite I soil
Sample Type Depth	-----					
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
BHC (other than g-BHC)	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
<i>gamma</i> -BHC(Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
DDD	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Chlordane (<i>trans&cis</i>)	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
<i>Surrogate</i>	%	117	85	104	113	120