

Parameter	Units	LOR	SE103054.031	SE103054.032	SE103054.033	SE103054.034	SE103054.035
Sample Number			SE103054.031	SE103054.032	SE103054.033	SE103054.034	SE103054.035
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	01 Nov 2011	01 Nov 2011	02 Nov 2011
Sample Name			AST1 0-0.2	UST1 0-0.3	SD4 0-0.1	SD5 0-0.1	SP1

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	108	130	122	115
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	108	-	-	115
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	0.6	1.2	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	<3	9	13	8	17
Cadmium, Cd	mg/kg	0.3	<0.3	3.0	0.7	0.3	2.8
Chromium, Cr	mg/kg	0.3	14	28	27	11	21
Copper, Cu	mg/kg	0.5	39	19	15	25	180
Lead, Pb	mg/kg	1	9	83	26	17	1400
Nickel, Ni	mg/kg	0.5	23	7.6	5.6	11	25
Zinc, Zn	mg/kg	0.5	53	100	30	60	980

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.31
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	No
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SemiQuant

Estimated Fibres	%w/w	0.01	-	-	-	-	<0.01
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Fibre ID in bulk materials Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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Moisture Content Method: AN234

% Moisture	%	0.5	3.1	8.0	41	50	6.0
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-

Sample Number	SE103054.031	SE103054.032	SE103054.033	SE103054.034	SE103054.035
Sample Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	31 Oct 2011	31 Oct 2011	01 Nov 2011	01 Nov 2011	02 Nov 2011
Sample Name	AST1 0-0.2	UST1 0-0.3	SD4 0-0.1	SD5 0-0.1	SP1

Parameter Units LOR
Metals in Water (Dissolved) by ICPOES Method: AN320/AN321 (continued)

Parameter	Units	LOR	SE103054.031	SE103054.032	SE103054.033	SE103054.034	SE103054.035
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Parameter	Units	LOR	SE103054.031	SE103054.032	SE103054.033	SE103054.034	SE103054.035
Mercury	mg/L	0.0001	-	-	-	-	-

Sample Number	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Sample Matrix	Material	Soil	Soil	Water	Water
Sample Date	02 Nov 2011	01 Nov 2011	01 Nov 2011	31 Oct 2011	01 Nov 2011
Sample Name	SP1_ZLB	Duplicate D3	Duplicate D4	Rinsate R3	Rinsate R4

Parameter Units LOR
VOC's in Soil Method: AN433/AN434
 Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Benzene	mg/kg	0.1	-	<0.1	-	-	-
Toluene	mg/kg	0.1	-	<0.1	-	-	-
Ethylbenzene	mg/kg	0.1	-	<0.1	-	-	-
m/p-xylene	mg/kg	0.2	-	<0.2	-	-	-
o-xylene	mg/kg	0.1	-	<0.1	-	-	-

Oxygenated Compounds

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	<0.1	-	-	-

Surrogates

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Dibromofluoromethane (Surrogate)	%	-	-	101	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	101	-	-	-
d8-toluene (Surrogate)	%	-	-	96	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	101	-	-	-

Totals

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Total BTEX*	mg/kg	-	-	0	-	-	-
Total Xylenes*	mg/kg	0.3	-	<0.3	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
TRH C6-C9	mg/kg	20	-	<20	-	-	-

Surrogates

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Trifluorotoluene (Surrogate)	%	-	-	123	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
TRH C10-C14	mg/kg	20	-	<20	-	-	-
TRH C15-C28	mg/kg	50	-	<50	-	-	-
TRH C29-C40	mg/kg	150	-	<150	-	-	-

	Sample Number	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
	Sample Matrix	Material	Soil	Soil	Water	Water
	Sample Date	02 Nov 2011	01 Nov 2011	01 Nov 2011	31 Oct 2011	01 Nov 2011
	Sample Name	SP1_ZLB	Duplicate D3	Duplicate D4	Rinsate R3	Rinsate R4
Parameter	Units	LOR				

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 (continued)

Surrogates

TRH (Surrogate)	%	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Compound	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Naphthalene	mg/kg	0.1	-	<0.1	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	<0.1	-	-	-
1-methylnaphthalene	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	-	0.4	-	-	-
Pyrene	mg/kg	0.1	-	0.4	-	-	-
Benzo(a)anthracene	mg/kg	0.1	-	0.3	-	-	-
Chrysene	mg/kg	0.1	-	0.2	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	-	0.3	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	0.2	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	0.2	-	-	-
Dibenzo(a,h)anthracene	mg/kg	0.1	-	<0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	0.2	-	-	-
Total PAH	mg/kg	0.8	-	2.4	-	-	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-	113	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	106	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	117	-	-	-

OC Pesticides in Soil Method: AN400/AN420

Compound	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Hexachlorobenzene (HCB)	mg/kg	0.1	-	<0.1	<0.1	-	-
Alpha BHC	mg/kg	0.1	-	<0.1	<0.1	-	-
Lindane	mg/kg	0.1	-	<0.1	<0.1	-	-
Heptachlor	mg/kg	0.1	-	<0.1	<0.1	-	-
Aldrin	mg/kg	0.1	-	<0.1	<0.1	-	-
Beta BHC	mg/kg	0.1	-	<0.1	<0.1	-	-
Delta BHC	mg/kg	0.1	-	<0.1	<0.1	-	-
Heptachlor epoxide	mg/kg	0.1	-	<0.1	<0.1	-	-
o,p'-DDE	mg/kg	0.1	-	<0.1	<0.1	-	-
Alpha Endosulfan	mg/kg	0.2	-	<0.2	<0.2	-	-
Gamma Chlordane	mg/kg	0.1	-	<0.1	<0.1	-	-
Alpha Chlordane	mg/kg	0.1	-	<0.1	<0.1	-	-
trans-Nonachlor	mg/kg	0.1	-	<0.1	<0.1	-	-
p,p'-DDE	mg/kg	0.1	-	<0.1	<0.1	-	-
Dieldrin	mg/kg	0.05	-	<0.11	<0.11	-	-
Endrin	mg/kg	0.2	-	<0.2	<0.2	-	-
o,p'-DDD	mg/kg	0.1	-	<0.1	<0.1	-	-
o,p'-DDT	mg/kg	0.1	-	<0.1	<0.1	-	-
Beta Endosulfan	mg/kg	0.2	-	<0.2	<0.2	-	-
p,p'-DDD	mg/kg	0.1	-	<0.1	<0.1	-	-
p,p'-DDT	mg/kg	0.1	-	<0.1	<0.1	-	-
Endosulfan sulphate	mg/kg	0.1	-	<0.1	<0.1	-	-
Endrin Aldehyde	mg/kg	0.1	-	<0.1	<0.1	-	-
Methoxychlor	mg/kg	0.1	-	<0.1	<0.1	-	-
Endrin Ketone	mg/kg	0.1	-	<0.1	<0.1	-	-

	Sample Number	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
	Sample Matrix	Material	Soil	Soil	Water	Water
	Sample Date	02 Nov 2011	01 Nov 2011	01 Nov 2011	31 Oct 2011	01 Nov 2011
	Sample Name	SP1_ZLB	Duplicate D3	Duplicate D4	Rinsate R3	Rinsate R4
Parameter	Units	LOR				

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	113	118	-	-
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PCBs in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Arochlor 1016	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1221	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1232	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1242	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1248	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1254	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1260	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1262	mg/kg	0.2	-	<0.2	-	-	-
Arochlor 1268	mg/kg	0.2	-	<0.2	-	-	-
Total PCBs (Arochlors)	mg/kg	1	-	<1	-	-	-

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	113	-	-	-
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	-	-	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Arsenic, As	mg/kg	3	-	9	7	-	-
Cadmium, Cd	mg/kg	0.3	-	0.6	0.3	-	-
Chromium, Cr	mg/kg	0.3	-	24	16	-	-
Copper, Cu	mg/kg	0.5	-	25	26	-	-
Lead, Pb	mg/kg	1	-	61	21	-	-
Nickel, Ni	mg/kg	0.5	-	16	5.0	-	-
Zinc, Zn	mg/kg	0.5	-	130	27	-	-

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	-	0.27	<0.05	-	-
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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SemiQuant

Estimated Fibres	%/w/w	0.01	-	-	-	-	-
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Fibre ID in bulk materials Method: AN602

FibreID

Asbestos Detected	No unit	-	Yes	-	-	-	-
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Moisture Content Method: AN234

% Moisture	%	0.5	-	12	12	-	-
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Arsenic, As	mg/L	0.05	-	-	-	<0.05	<0.05
Cadmium, Cd	mg/L	0.005	-	-	-	<0.005	<0.005
Chromium, Cr	mg/L	0.005	-	-	-	<0.005	<0.005
Copper, Cu	mg/L	0.01	-	-	-	<0.01	<0.01
Lead, Pb	mg/L	0.02	-	-	-	<0.02	<0.02

Parameter	Units	LOR	SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Sample Number			SE103054.036	SE103054.037	SE103054.038	SE103054.039	SE103054.040
Sample Matrix			Material	Soil	Soil	Water	Water
Sample Date			02 Nov 2011	01 Nov 2011	01 Nov 2011	31 Oct 2011	01 Nov 2011
Sample Name			SP1_ZLB	Duplicate D3	Duplicate D4	Rinsate R3	Rinsate R4

Metals in Water (Dissolved) by ICPOES Method: AN320/AN321 (continued)

Nickel, Ni	mg/L	0.01	-	-	-	<0.010	<0.010
Zinc, Zn	mg/L	0.01	-	-	-	<0.01	<0.01

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	<0.0001	<0.0001
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Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Number			SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Matrix			Water	Soil	Soil	Soil	Soil
Sample Date			02 Nov 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			Rinsate R5	Trip Spike TS1	C12	C13	C14

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	-	[96%]	-	-	-
Toluene	mg/kg	0.1	-	[98%]	-	-	-
Ethylbenzene	mg/kg	0.1	-	[96%]	-	-	-
m/p-xylene	mg/kg	0.2	-	[98%]	-	-	-
o-xylene	mg/kg	0.1	-	[97%]	-	-	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	[94%]	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	94	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	98	-	-	-
d8-toluene (Surrogate)	%	-	-	94	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	88	-	-	-

Totals

Total BTEX*	mg/kg	-	-	[97%]	-	-	-
Total Xylenes*	mg/kg	0.3	-	[98%]	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-	-
TRH C15-C28	mg/kg	50	-	-	-	-	-
TRH C29-C40	mg/kg	150	-	-	-	-	-

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Number			SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Matrix			Water	Soil	Soil	Soil	Soil
Sample Date			02 Nov 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			Rinsate R5	Trip Spike TS1	C12	C13	C14

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 (continued)

Surrogates

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
TRH (Surrogate)	%	-	-	-	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Naphthalene	mg/kg	0.1	-	-	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-	-
Dibenzo(a,h)anthracene	mg/kg	0.1	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-	-
Total PAH	mg/kg	0.8	-	-	-	-	-

Surrogates

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	-

OC Pesticides in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Hexachlorobenzene (HCB)	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	-	-	<0.11	<0.11	<0.11
Endrin	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	-	-	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	-	-	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	-	-	<0.1	<0.1	<0.1

	Sample Number	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
	Sample Matrix	Water	Soil	Soil	Soil	Soil
	Sample Date	02 Nov 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
	Sample Name	Rinsate R5	Trip Spike TS1	C12	C13	C14
Parameter	Units	LOR				

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	121	115	118
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PCBs in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Arochlor 1016	mg/kg	0.2	-	-	-	-	-
Arochlor 1221	mg/kg	0.2	-	-	-	-	-
Arochlor 1232	mg/kg	0.2	-	-	-	-	-
Arochlor 1242	mg/kg	0.2	-	-	-	-	-
Arochlor 1248	mg/kg	0.2	-	-	-	-	-
Arochlor 1254	mg/kg	0.2	-	-	-	-	-
Arochlor 1260	mg/kg	0.2	-	-	-	-	-
Arochlor 1262	mg/kg	0.2	-	-	-	-	-
Arochlor 1268	mg/kg	0.2	-	-	-	-	-
Total PCBs (Arochlors)	mg/kg	1	-	-	-	-	-

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	-	-	-
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	-	-	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Arsenic, As	mg/kg	3	-	-	6	<3	4
Cadmium, Cd	mg/kg	0.3	-	-	2.6	<0.3	<0.3
Chromium, Cr	mg/kg	0.3	-	-	20	8.4	16
Copper, Cu	mg/kg	0.5	-	-	7.6	7.1	11
Lead, Pb	mg/kg	1	-	-	17	14	18
Nickel, Ni	mg/kg	0.5	-	-	4.5	4.4	8.5
Zinc, Zn	mg/kg	0.5	-	-	310	17	30

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	-	-	<0.05	<0.05	<0.05
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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SemiQuant

Estimated Fibres	%/w/w	0.01	-	-	-	-	-
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Fibre ID in bulk materials Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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Moisture Content Method: AN234

% Moisture	%	0.5	-	-	15	8.3	11
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Arsenic, As	mg/L	0.05	<0.05	-	-	-	-
Cadmium, Cd	mg/L	0.005	<0.005	-	-	-	-
Chromium, Cr	mg/L	0.005	<0.005	-	-	-	-
Copper, Cu	mg/L	0.01	<0.01	-	-	-	-
Lead, Pb	mg/L	0.02	<0.02	-	-	-	-

Parameter	Units	LOR	SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Number			SE103054.041	SE103054.042	SE103054.043	SE103054.044	SE103054.045
Sample Matrix			Water	Soil	Soil	Soil	Soil
Sample Date			02 Nov 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			Rinsate R5	Trip Spike TS1	C12	C13	C14

Metals in Water (Dissolved) by ICPOES Method: AN320/AN321 (continued)

Nickel, Ni	mg/L	0.01	<0.010	-	-	-	-
Zinc, Zn	mg/L	0.01	<0.01	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	<0.0001	-	-	-	-
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Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Number			SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			C15	C16	C17	C18	C19

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	-	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

Totals

Total BTEX*	mg/kg	-	-	-	-	-	-
Total Xylenes*	mg/kg	0.3	-	-	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-	-
TRH C15-C28	mg/kg	50	-	-	-	-	-
TRH C29-C40	mg/kg	150	-	-	-	-	-

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Number			SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			C15	C16	C17	C18	C19

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 (continued)

Surrogates

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
TRH (Surrogate)	%	-	-	-	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Naphthalene	mg/kg	0.1	-	<0.1	-	-	<0.1
2-methylnaphthalene	mg/kg	0.1	-	<0.1	-	-	<0.1
1-methylnaphthalene	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	-	-	0.4
Pyrene	mg/kg	0.1	-	<0.1	-	-	0.4
Benzo(a)anthracene	mg/kg	0.1	-	<0.1	-	-	0.2
Chrysene	mg/kg	0.1	-	<0.1	-	-	0.2
Benzo(b)fluoranthene	mg/kg	0.1	-	<0.1	-	-	0.3
Benzo(k)fluoranthene	mg/kg	0.1	-	<0.1	-	-	0.1
Benzo(a)pyrene	mg/kg	0.1	-	<0.1	-	-	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	<0.1	-	-	0.2
Dibenzo(a,h)anthracene	mg/kg	0.1	-	<0.1	-	-	<0.1
Benzo(ghi)perylene	mg/kg	0.1	-	<0.1	-	-	0.2
Total PAH	mg/kg	0.8	-	<0.8	-	-	2.3

Surrogates

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
d5-nitrobenzene (Surrogate)	%	-	-	112	-	-	117
2-fluorobiphenyl (Surrogate)	%	-	-	100	-	-	108
d14-p-terphenyl (Surrogate)	%	-	-	118	-	-	118

OC Pesticides in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.1†	<0.1†	<0.1†	<0.1†	<0.1†
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Number			SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			C15	C16	C17	C18	C19

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	117	121	122	110	103
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1221	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1232	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1242	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1248	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1254	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1260	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1262	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1268	mg/kg	0.2	-	<0.2	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	<1	-	-	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	121	-	-	103
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Total Phenolics in Soil Method: AN289

Total Phenols	mg/kg	0.1	-	-	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	8	10	9	11	7
Cadmium, Cd	mg/kg	0.3	0.5	0.5	0.4	0.4	0.5
Chromium, Cr	mg/kg	0.3	26	16	16	18	17
Copper, Cu	mg/kg	0.5	7.8	17	31	14	21
Lead, Pb	mg/kg	1	22	22	25	24	27
Nickel, Ni	mg/kg	0.5	4.1	4.1	8.6	7.2	13
Zinc, Zn	mg/kg	0.5	23	20	61	40	76

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
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Fibre Identification in soil Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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SemiQuant

Estimated Fibres	%w/w	0.01	-	-	-	-	-
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Fibre ID in bulk materials Method: AN602

FibreID

Asbestos Detected	No unit	-	-	-	-	-	-
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Moisture Content Method: AN234

% Moisture	%	0.5	8.4	11	12	11	11
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-

Parameter	Units	LOR	SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Number			SE103054.046	SE103054.047	SE103054.048	SE103054.049	SE103054.050
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			C15	C16	C17	C18	C19

Metals in Water (Dissolved) by ICPOES Method: AN320/AN321 (continued)

Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB008427	mg/L	0.0001	<0.0001	65%	98%	100%

Mercury in Soil Method: ME-(AU)-[ENV]AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB008322	mg/kg	0.05	<0.05	0 - 14%	98%	93%
	LB008323	mg/kg	0.05	<0.05	0%	97%	72%

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Arsenic, As	LB008557	mg/L	0.05	<0.05	94%
Cadmium, Cd	LB008557	mg/L	0.005	<0.005	96%
Chromium, Cr	LB008557	mg/L	0.005	<0.005	96%
Copper, Cu	LB008557	mg/L	0.01	<0.01	98%
Lead, Pb	LB008557	mg/L	0.02	<0.02	97%
Nickel, Ni	LB008557	mg/L	0.01	<0.010	96%
Zinc, Zn	LB008557	mg/L	0.01	<0.01	95%

Moisture Content Method: ME-(AU)-[ENV]AN234

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB008312	%	0.5	1 - 11%

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexachlorobenzene (HCB)	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Alpha BHC	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Lindane	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Heptachlor	LB008301	mg/kg	0.1	<0.1	0%	116%	119%
Aldrin	LB008301	mg/kg	0.1	<0.1	0%	115%	128%
Beta BHC	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Delta BHC	LB008301	mg/kg	0.1	<0.1	0%	107%	120%
Heptachlor epoxide	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
o,p'-DDE	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Endosulfan	LB008301	mg/kg	0.2	<0.2	0%	NA	NA
Gamma Chlordane	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Chlordane	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
trans-Nonachlor	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDE	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Dieldrin	LB008301	mg/kg	0.05	<0.1	0%	110%	116%
Endrin	LB008301	mg/kg	0.2	<0.2	0%	118%	120%
o,p'-DDD	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
o,p'-DDT	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Beta Endosulfan	LB008301	mg/kg	0.2	<0.2	0%	NA	NA
p,p'-DDD	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDT	LB008301	mg/kg	0.1	<0.1	0%	116%	74%
Endosulfan sulphate	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Endrin Aldehyde	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Methoxychlor	LB008301	mg/kg	0.1	<0.1	0%	NA	NA
Endrin Ketone	LB008301	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008301	%	-	104%	3%	92%	119%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB008302	mg/kg	0.1	<0.1	0%	106%	117%
2-methylnaphthalene	LB008302	mg/kg	0.1	<0.1	0%	NA	NA
1-methylnaphthalene	LB008302	mg/kg	0.1	<0.1	0%	NA	NA
Acenaphthylene	LB008302	mg/kg	0.1	<0.1	0%	101%	115%
Acenaphthene	LB008302	mg/kg	0.1	<0.1	0%	120%	135%
Fluorene	LB008302	mg/kg	0.1	<0.1	0%	NA	NA
Phenanthrene	LB008302	mg/kg	0.1	<0.1	22 - 33%	107%	106%
Anthracene	LB008302	mg/kg	0.1	<0.1	0%	110%	114%
Fluoranthene	LB008302	mg/kg	0.1	<0.1	16 - 46%	107%	89%
Pyrene	LB008302	mg/kg	0.1	<0.1	15 - 30%	112%	99%
Benzo(a)anthracene	LB008302	mg/kg	0.1	<0.1	6 - 13%	NA	NA
Chrysene	LB008302	mg/kg	0.1	<0.1	21 - 31%	NA	NA
Benzo(b)fluoranthene	LB008302	mg/kg	0.1	<0.1	4 - 18%	NA	NA
Benzo(k)fluoranthene	LB008302	mg/kg	0.1	<0.1	0 - 31%	NA	NA
Benzo(a)pyrene	LB008302	mg/kg	0.1	<0.1	6 - 24%	112%	121%
Indeno(1,2,3-cd)pyrene	LB008302	mg/kg	0.1	<0.1	7 - 22%	NA	NA
Dibenzo(a&h)anthracene	LB008302	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB008302	mg/kg	0.1	<0.1	10 - 15%	NA	NA
Total PAH	LB008302	mg/kg	0.8	<0.8	9 - 29%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB008302	%	-	124%	3 - 11%	116%	108%
2-fluorobiphenyl (Surrogate)	LB008302	%	-	104%	1 - 15%	106%	103%
d14-p-terphenyl (Surrogate)	LB008302	%	-	114%	2 - 13%	115%	111%

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arochlor 1016	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1221	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1232	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1242	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1248	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1254	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1260	LB008301	mg/kg	0.2	<0.2	0%	118%
Arochlor 1262	LB008301	mg/kg	0.2	<0.2	0%	NA
Arochlor 1268	LB008301	mg/kg	0.2	<0.2	0%	NA
Total PCBs (Arochlors)	LB008301	mg/kg	1	<1	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008301	%	-	104%	3%	99%

Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Phenols	LB008491	mg/kg	0.1	<0.1	0%	103%	54%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Arsenic, As	LB008317	mg/kg	3	<3	1 - 3%	103%	
	LB008318	mg/kg	3	<3	1 - 10%	104%	79%
	LB008319	mg/kg	3	<3		101%	85%
Cadmium, Cd	LB008317	mg/kg	0.3	<0.3	1 - 7%	105%	
	LB008318	mg/kg	0.3	<0.3	1 - 20%	106%	82%
	LB008319	mg/kg	0.3	<0.3		104%	88%
Chromium, Cr	LB008317	mg/kg	0.3	<0.3	1 - 3%	102%	
	LB008318	mg/kg	0.3	<0.3	1 - 7%	103%	75%
	LB008319	mg/kg	0.3	<0.3		101%	85%
Copper, Cu	LB008317	mg/kg	0.5	<0.5	1 - 2%	100%	
	LB008318	mg/kg	0.5	<0.5	3 - 4%	101%	79%
	LB008319	mg/kg	0.5	<0.5		99%	84%
Lead, Pb	LB008317	mg/kg	1	<1	1 - 3%	104%	
	LB008318	mg/kg	1	<1	5 - 19%	105%	72%
	LB008319	mg/kg	1	<1		103%	82%
Nickel, Ni	LB008317	mg/kg	0.5	<0.5	0 - 3%	105%	
	LB008318	mg/kg	0.5	<0.5	1 - 20%	107%	81%
	LB008319	mg/kg	0.5	<0.5		104%	88%
Zinc, Zn	LB008317	mg/kg	0.5	<0.5	1 - 4%	102%	
	LB008318	mg/kg	0.5	<0.5	4 - 5%	103%	81%
	LB008319	mg/kg	0.5	<0.5		101%	87%

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
TRH C10-C14	LB008299	mg/kg	20	<20	0%	103%	118%
TRH C15-C28	LB008299	mg/kg	50	<50	0%	103%	118%
TRH C29-C40	LB008299	mg/kg	150	<150	0%	NA	NA

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Benzene	LB008304	mg/kg	0.1	<0.1		87%	
	LB008486	mg/kg	0.1	<0.1	0%	119%	113%
Toluene	LB008304	mg/kg	0.1	<0.1		96%	
	LB008486	mg/kg	0.1	<0.1	0%	117%	118%
Ethylbenzene	LB008304	mg/kg	0.1	<0.1		89%	
	LB008486	mg/kg	0.1	<0.1	0%	128%	127%
m/p-xylene	LB008304	mg/kg	0.2	<0.2		91%	
	LB008486	mg/kg	0.2	<0.2	0%	129%	126%
o-xylene	LB008304	mg/kg	0.1	<0.1		98%	
	LB008486	mg/kg	0.1	<0.1	0%	127%	123%

Oxygenated Compounds

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
MIBE (Methyl-tert-butyl ether)	LB008304	mg/kg	0.1	<0.1		NA	
	LB008486	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC	Units	LOR	MB	DUP %RPD	LCS	MS
	Reference					%Recovery	%Recovery
Dibromofluoromethane (Surrogate)	LB008304	%	-	91%	0%	85%	
	LB008486	%	-	103%	1%	101%	102%
d4-1,2-dichloroethane (Surrogate)	LB008304	%	-	107%	1%	105%	
	LB008486	%	-	100%	3%	105%	103%
d8-toluene (Surrogate)	LB008304	%	-	98%	0%	100%	
	LB008486	%	-	95%	5%	98%	102%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
Bromofluorobenzene (Surrogate)	LB008304	%	-	101%	3%	103%	
	LB008486	%	-	101%	2%	106%	102%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX*	LB008304	mg/kg	-	0		NA	
	LB008486	mg/kg	-	0	NA	NA	NA
Total Xylenes*	LB008304	mg/kg	0.3	<0.3		NA	
	LB008486	mg/kg	0.3	<0.3	0%	NA	NA

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB008304	mg/kg	20	NVL		0%	
	LB008572	mg/kg	20	<20	0%	130%	133%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB008304	%	-	0%		NVL	
	LB008572	%	-	108%	27%	107%	121%

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

METHOD

METHODOLOGY SUMMARY

AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	This analysis is not covered by the scope of accreditation.	-	The sample was not analysed for this analyte
^	Performed by outside laboratory.	NVL	Not Validated
LOR	Limit of Reporting		
↑↓	Raised or Lowered Limit of Reporting		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
<http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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Project **12576/1 - Marsden Park Precinct**
 Order Number (Not specified)
 Samples 50

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SGS Reference SE103054 R0
 Report Number 0000011634
 Date Reported 11 Nov 2011

COMMENTS

All the laboratory data for each environmental matrix was compared to the SGS Environmental Services' stated data quality objectives (DQO).

Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the chain of custody document and was supplied by the client.

This QA/QC statement must be read in conjunction with the referenced analytical report.

The statement and the analytical report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

MS	Total Phenolics in Soil	1 Item
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SAMPLE SUMMARY

Sample counts by matrix	36 Soil, 2 Bulk, 3 Water	Type of documentation received	COC
Date documentation received	04/11/2011@1:02pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
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Fibre ID in bulk materials Method: ME-(AU)-[ENV]AN602

TP55 0-0.3_ZLB	SE103054.025	LB008482	02 Nov 2011	03 Nov 2011	01 Nov 2012	09 Nov 2011	01 Nov 2012	10 Nov 2011
SP1_ZLB	SE103054.036	LB008482	02 Nov 2011	03 Nov 2011	01 Nov 2012	09 Nov 2011	01 Nov 2012	10 Nov 2011

Fibre Identification in soil Method: ME-(AU)-[ENV]AN602

TP55 0-0.3	SE103054.024	LB008574	02 Nov 2011	03 Nov 2011	01 Nov 2012	10 Nov 2011	01 Nov 2012	11 Nov 2011
SP1	SE103054.035	LB008574	02 Nov 2011	03 Nov 2011	01 Nov 2012	10 Nov 2011	01 Nov 2012	11 Nov 2011

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Rinsate R3	SE103054.039	LB008427	31 Oct 2011	03 Nov 2011	28 Nov 2011	09 Nov 2011	28 Nov 2011	09 Nov 2011
Rinsate R4	SE103054.040	LB008427	01 Nov 2011	03 Nov 2011	29 Nov 2011	09 Nov 2011	29 Nov 2011	09 Nov 2011
Rinsate R5	SE103054.041	LB008427	02 Nov 2011	03 Nov 2011	30 Nov 2011	09 Nov 2011	30 Nov 2011	09 Nov 2011

Mercury in Soil Method: ME-(AU)-[ENV]AN312

TP41 0-0.15	SE103054.008	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
TP47 0-0.2	SE103054.014	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
TP50 0-0.15	SE103054.018	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
TP53 0-0.3	SE103054.022	LB008322	02 Nov 2011	03 Nov 2011	30 Nov 2011	08 Nov 2011	30 Nov 2011	08 Nov 2011
TP59 0-0.3	SE103054.030	LB008322	02 Nov 2011	03 Nov 2011	30 Nov 2011	08 Nov 2011	30 Nov 2011	08 Nov 2011
AST1 0-0.2	SE103054.031	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
UST1 0-0.3	SE103054.032	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
SD4 0-0.1	SE103054.033	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
SD5 0-0.1	SE103054.034	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
SP1	SE103054.035	LB008322	02 Nov 2011	03 Nov 2011	30 Nov 2011	08 Nov 2011	30 Nov 2011	08 Nov 2011
Duplicate D3	SE103054.037	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
Duplicate D4	SE103054.038	LB008322	01 Nov 2011	03 Nov 2011	29 Nov 2011	08 Nov 2011	29 Nov 2011	08 Nov 2011
C12	SE103054.043	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C13	SE103054.044	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C14	SE103054.045	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C15	SE103054.046	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C16	SE103054.047	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C17	SE103054.048	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C18	SE103054.049	LB008322	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011
C19	SE103054.050	LB008323	31 Oct 2011	03 Nov 2011	28 Nov 2011	08 Nov 2011	28 Nov 2011	08 Nov 2011

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Rinsate R3	SE103054.039	LB008557	31 Oct 2011	03 Nov 2011	28 Apr 2012	10 Nov 2011	28 Apr 2012	10 Nov 2011
Rinsate R4	SE103054.040	LB008557	01 Nov 2011	03 Nov 2011	29 Apr 2012	10 Nov 2011	29 Apr 2012	10 Nov 2011
Rinsate R5	SE103054.041	LB008557	02 Nov 2011	03 Nov 2011	30 Apr 2012	10 Nov 2011	30 Apr 2012	10 Nov 2011

Moisture Content Method: ME-(AU)-[ENV]AN234

TP3 0-0.1	SE103054.001	LB008311	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP17 0-0.1	SE103054.002	LB008311	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP20 0-0.15	SE103054.003	LB008311	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP37 0-0.15	SE103054.004	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP38 0-0.15	SE103054.005	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP39 0-0.15	SE103054.006	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP40 0-0.15	SE103054.007	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP41 0-0.15	SE103054.008	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP42 0-0.1	SE103054.009	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP43 0-0.15	SE103054.010	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP44 0-0.1	SE103054.011	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP45 0-0.1	SE103054.012	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP46 0-0.1	SE103054.013	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP47 0-0.2	SE103054.014	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP47 0.5-0.8	SE103054.015	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP48 0-0.1	SE103054.016	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP49 0-0.15	SE103054.017	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP50 0-0.15	SE103054.018	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP50 0.3-0.6	SE103054.019	LB008311	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP51 0-0.15	SE103054.020	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP52 0-0.15	SE103054.021	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP53 0-0.3	SE103054.022	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP54 0-0.3	SE103054.023	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP55 0-0.3	SE103054.024	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP55 0.5-0.8	SE103054.026	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP56 0-0.1	SE103054.027	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP57 0-0.1	SE103054.028	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP58 0-0.15	SE103054.029	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	11 Nov 2011
TP59 0-0.3	SE103054.030	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
AST1 0-0.2	SE103054.031	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
UST1 0-0.3	SE103054.032	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
SD4 0-0.1	SE103054.033	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
SD5 0-0.1	SE103054.034	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
SP1	SE103054.035	LB008312	02 Nov 2011	03 Nov 2011	16 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
Duplicate D3	SE103054.037	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
Duplicate D4	SE103054.038	LB008312	01 Nov 2011	03 Nov 2011	15 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C12	SE103054.043	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C13	SE103054.044	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C14	SE103054.045	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C15	SE103054.046	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C16	SE103054.047	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C17	SE103054.048	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C18	SE103054.049	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
C19	SE103054.050	LB008312	31 Oct 2011	03 Nov 2011	14 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
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OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

TP41 0-0.15	SE103054.008	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP47 0-0.2	SE103054.014	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP50 0-0.15	SE103054.018	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP53 0-0.3	SE103054.022	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP59 0-0.3	SE103054.030	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
AST1 0-0.2	SE103054.031	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
UST1 0-0.3	SE103054.032	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SD4 0-0.1	SE103054.033	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SD5 0-0.1	SE103054.034	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SP1	SE103054.035	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
Duplicate D3	SE103054.037	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
Duplicate D4	SE103054.038	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C12	SE103054.043	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C13	SE103054.044	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C14	SE103054.045	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C15	SE103054.046	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C16	SE103054.047	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C17	SE103054.048	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C18	SE103054.049	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C19	SE103054.050	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

TP47 0-0.2	SE103054.014	LB008302	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
TP53 0-0.3	SE103054.022	LB008302	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
TP59 0-0.3	SE103054.030	LB008302	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
AST1 0-0.2	SE103054.031	LB008302	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
UST1 0-0.3	SE103054.032	LB008302	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
SP1	SE103054.035	LB008302	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
Duplicate D3	SE103054.037	LB008302	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
C16	SE103054.047	LB008302	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011
C19	SE103054.050	LB008302	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	09 Nov 2011

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

TP41 0-0.15	SE103054.008	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP47 0-0.2	SE103054.014	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP50 0-0.15	SE103054.018	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP53 0-0.3	SE103054.022	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
TP59 0-0.3	SE103054.030	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
AST1 0-0.2	SE103054.031	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
UST1 0-0.3	SE103054.032	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SD4 0-0.1	SE103054.033	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SD5 0-0.1	SE103054.034	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
SP1	SE103054.035	LB008301	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
Duplicate D3	SE103054.037	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
Duplicate D4	SE103054.038	LB008301	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C12	SE103054.043	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C13	SE103054.044	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C14	SE103054.045	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C15	SE103054.046	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C16	SE103054.047	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C17	SE103054.048	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
C18	SE103054.049	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011
C19	SE103054.050	LB008301	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	11 Nov 2011

Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289

AST1 0-0.2	SE103054.031	LB008491	31 Oct 2011	03 Nov 2011	28 Nov 2011	09 Nov 2011	28 Nov 2011	09 Nov 2011
UST1 0-0.3	SE103054.032	LB008491	31 Oct 2011	03 Nov 2011	28 Nov 2011	09 Nov 2011	28 Nov 2011	09 Nov 2011

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

TP41 0-0.15	SE103054.008	LB008319	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
TP47 0-0.2	SE103054.014	LB008319	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
TP50 0-0.15	SE103054.018	LB008317	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
TP53 0-0.3	SE103054.022	LB008317	02 Nov 2011	03 Nov 2011	30 Apr 2012	08 Nov 2011	30 Apr 2012	10 Nov 2011
TP59 0-0.3	SE103054.030	LB008317	02 Nov 2011	03 Nov 2011	30 Apr 2012	08 Nov 2011	30 Apr 2012	10 Nov 2011
AST1 0-0.2	SE103054.031	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
UST1 0-0.3	SE103054.032	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
SD4 0-0.1	SE103054.033	LB008317	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
SD5 0-0.1	SE103054.034	LB008317	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
SP1	SE103054.035	LB008317	02 Nov 2011	03 Nov 2011	30 Apr 2012	08 Nov 2011	30 Apr 2012	10 Nov 2011
Duplicate D3	SE103054.037	LB008317	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
Duplicate D4	SE103054.038	LB008317	01 Nov 2011	03 Nov 2011	29 Apr 2012	08 Nov 2011	29 Apr 2012	10 Nov 2011
C12	SE103054.043	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C13	SE103054.044	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C14	SE103054.045	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C15	SE103054.046	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C16	SE103054.047	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C17	SE103054.048	LB008317	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C18	SE103054.049	LB008318	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011
C19	SE103054.050	LB008318	31 Oct 2011	03 Nov 2011	28 Apr 2012	08 Nov 2011	28 Apr 2012	10 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEMP "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403								
TP41 0-0.15	SE103054.008	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
TP47 0-0.2	SE103054.014	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
TP50 0-0.15	SE103054.018	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
TP53 0-0.3	SE103054.022	LB008299	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
TP59 0-0.3	SE103054.030	LB008299	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
AST1 0-0.2	SE103054.031	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
UST1 0-0.3	SE103054.032	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
SD4 0-0.1	SE103054.033	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
SD5 0-0.1	SE103054.034	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
SP1	SE103054.035	LB008299	02 Nov 2011	03 Nov 2011	16 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
Duplicate D3	SE103054.037	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
Duplicate D4	SE103054.038	LB008299	01 Nov 2011	03 Nov 2011	15 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C12	SE103054.043	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C13	SE103054.044	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C14	SE103054.045	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C15	SE103054.046	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C16	SE103054.047	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C17	SE103054.048	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C18	SE103054.049	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011
C19	SE103054.050	LB008299	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

TP47 0-0.2	SE103054.014	LB008486	01 Nov 2011	03 Nov 2011	15 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
TP53 0-0.3	SE103054.022	LB008486	02 Nov 2011	03 Nov 2011	16 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
AST1 0-0.2	SE103054.031	LB008486	31 Oct 2011	03 Nov 2011	14 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
UST1 0-0.3	SE103054.032	LB008486	31 Oct 2011	03 Nov 2011	14 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
SP1	SE103054.035	LB008486	02 Nov 2011	03 Nov 2011	16 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
Duplicate D3	SE103054.037	LB008486	01 Nov 2011	03 Nov 2011	15 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
Trip Spike TS1	SE103054.042	LB008486	31 Oct 2011	03 Nov 2011	14 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

TP47 0-0.2	SE103054.014	LB008572	01 Nov 2011	03 Nov 2011	15 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
TP53 0-0.3	SE103054.022	LB008572	02 Nov 2011	03 Nov 2011	16 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
AST1 0-0.2	SE103054.031	LB008572	31 Oct 2011	03 Nov 2011	14 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
UST1 0-0.3	SE103054.032	LB008572	31 Oct 2011	03 Nov 2011	14 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
SP1	SE103054.035	LB008572	02 Nov 2011	03 Nov 2011	16 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
Duplicate D3	SE103054.037	LB008572	01 Nov 2011	03 Nov 2011	15 Nov 2011	10 Nov 2011	20 Dec 2011	10 Nov 2011
Trip Spike TS1	SE103054.042	LB008304	31 Oct 2011	03 Nov 2011	14 Nov 2011	07 Nov 2011	17 Dec 2011	10 Nov 2011

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
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OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Tetrachloro-m-xylene (TCMX) (Surrogate)	TP41 0-0.15	SE103054.008	%	60 - 130%	113
	TP47 0-0.2	SE103054.014	%	60 - 130%	113
	TP50 0-0.15	SE103054.018	%	60 - 130%	114
	TP53 0-0.3	SE103054.022	%	60 - 130%	114
	TP59 0-0.3	SE103054.030	%	60 - 130%	111
	AST1 0-0.2	SE103054.031	%	60 - 130%	93
	UST1 0-0.3	SE103054.032	%	60 - 130%	108
	SD4 0-0.1	SE103054.033	%	60 - 130%	130
	SD5 0-0.1	SE103054.034	%	60 - 130%	122
	SP1	SE103054.035	%	60 - 130%	115
	Duplicate D3	SE103054.037	%	60 - 130%	113
	Duplicate D4	SE103054.038	%	60 - 130%	118
	C12	SE103054.043	%	60 - 130%	121
	C13	SE103054.044	%	60 - 130%	115
	C14	SE103054.045	%	60 - 130%	118
	C15	SE103054.046	%	60 - 130%	117
	C16	SE103054.047	%	60 - 130%	121
	C17	SE103054.048	%	60 - 130%	122
	C18	SE103054.049	%	60 - 130%	110
C19	SE103054.050	%	60 - 130%	103	

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

2-fluorobiphenyl (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	91
	TP53 0-0.3	SE103054.022	%	60 - 130%	89
	TP59 0-0.3	SE103054.030	%	60 - 130%	101
	AST1 0-0.2	SE103054.031	%	60 - 130%	114
	UST1 0-0.3	SE103054.032	%	60 - 130%	102
	SP1	SE103054.035	%	60 - 130%	111
	Duplicate D3	SE103054.037	%	60 - 130%	106
	C16	SE103054.047	%	60 - 130%	100
	C19	SE103054.050	%	60 - 130%	108
d14-p-terphenyl (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	112
	TP53 0-0.3	SE103054.022	%	60 - 130%	111
	TP59 0-0.3	SE103054.030	%	60 - 130%	107
	AST1 0-0.2	SE103054.031	%	60 - 130%	118
	UST1 0-0.3	SE103054.032	%	60 - 130%	102
	SP1	SE103054.035	%	60 - 130%	128
	Duplicate D3	SE103054.037	%	60 - 130%	117
	C16	SE103054.047	%	60 - 130%	116
	C19	SE103054.050	%	60 - 130%	118
d5-nitrobenzene (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	111
	TP53 0-0.3	SE103054.022	%	60 - 130%	110
	TP59 0-0.3	SE103054.030	%	60 - 130%	109
	AST1 0-0.2	SE103054.031	%	60 - 130%	117
	UST1 0-0.3	SE103054.032	%	60 - 130%	104
	SP1	SE103054.035	%	60 - 130%	121
	Duplicate D3	SE103054.037	%	60 - 130%	113
	C16	SE103054.047	%	60 - 130%	112
	C19	SE103054.050	%	60 - 130%	117

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Tetrachloro-m-xylene (TCMX) (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	113
	TP53 0-0.3	SE103054.022	%	60 - 130%	114
	AST1 0-0.2	SE103054.031	%	60 - 130%	93
	UST1 0-0.3	SE103054.032	%	60 - 130%	108
	SP1	SE103054.035	%	60 - 130%	115
	Duplicate D3	SE103054.037	%	60 - 130%	113

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
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Continued... PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Tetrachloro-m-xylene (TCMX) (Surrogate)	C16	SE103054.047	%	60 - 130%	121
	C19	SE103054.050	%	60 - 130%	103

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Bromofluorobenzene (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	97
	TP53 0-0.3	SE103054.022	%	60 - 130%	107
	AST1 0-0.2	SE103054.031	%	60 - 130%	100
	UST1 0-0.3	SE103054.032	%	60 - 130%	101
	SP1	SE103054.035	%	60 - 130%	102
	Duplicate D3	SE103054.037	%	60 - 130%	101
	Trip Spike TS1	SE103054.042	%	60 - 130%	88
d4-1,2-dichloroethane (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	102
	TP53 0-0.3	SE103054.022	%	60 - 130%	98
	AST1 0-0.2	SE103054.031	%	60 - 130%	100
	UST1 0-0.3	SE103054.032	%	60 - 130%	101
	SP1	SE103054.035	%	60 - 130%	100
	Duplicate D3	SE103054.037	%	60 - 130%	101
	Trip Spike TS1	SE103054.042	%	60 - 130%	98
d8-toluene (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	101
	TP53 0-0.3	SE103054.022	%	60 - 130%	92
	AST1 0-0.2	SE103054.031	%	60 - 130%	94
	UST1 0-0.3	SE103054.032	%	60 - 130%	97
	SP1	SE103054.035	%	60 - 130%	100
	Duplicate D3	SE103054.037	%	60 - 130%	96
	Trip Spike TS1	SE103054.042	%	60 - 130%	94
Dibromofluoromethane (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	102
	TP53 0-0.3	SE103054.022	%	60 - 130%	98
	AST1 0-0.2	SE103054.031	%	60 - 130%	99
	UST1 0-0.3	SE103054.032	%	60 - 130%	102
	SP1	SE103054.035	%	60 - 130%	100
	Duplicate D3	SE103054.037	%	60 - 130%	101
	Trip Spike TS1	SE103054.042	%	60 - 130%	94

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Trifluorotoluene (Surrogate)	TP47 0-0.2	SE103054.014	%	60 - 130%	116
	TP53 0-0.3	SE103054.022	%	60 - 130%	86
	AST1 0-0.2	SE103054.031	%	60 - 130%	130
	UST1 0-0.3	SE103054.032	%	60 - 130%	124
	SP1	SE103054.035	%	60 - 130%	126
	Duplicate D3	SE103054.037	%	60 - 130%	123

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
 LB008427.001

Mercury	mg/L	0.0001	<0.0001
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Mercury in Soil Method: ME-(AU)-[ENV]AN312
 LB008322.001

Mercury	mg/kg	0.05	<0.05
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LB008323.001

Mercury	mg/kg	0.05	<0.05
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Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321
 LB008557.001

Arsenic, As	mg/L	0.05	<0.05
Cadmium, Cd	mg/L	0.005	<0.005
Chromium, Cr	mg/L	0.005	<0.005
Copper, Cu	mg/L	0.01	<0.01
Lead, Pb	mg/L	0.02	<0.02
Nickel, Ni	mg/L	0.01	<0.010
Zinc, Zn	mg/L	0.01	<0.01

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008301.001

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.05	<0.1
Endrin	mg/kg	0.2	<0.2
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	104
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
 LB008302.001

Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	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

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Continued... PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

LB008302.001

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(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Total PAH	mg/kg	0.8	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	124
2-fluorobiphenyl (Surrogate)	%	-	104
d14-p-terphenyl (Surrogate)	%	-	114

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

LB008301.001

Arochlor 1016	mg/kg	0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	104
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Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289

LB008491.001

Total Phenols	mg/kg	0.1	<0.1
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB008317.001

Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.3	<0.3
Copper, Cu	mg/kg	0.5	<0.5
Lead, Pb	mg/kg	1	<1
Nickel, Ni	mg/kg	0.5	<0.5
Zinc, Zn	mg/kg	0.5	<0.5

LB008318.001

Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.3	<0.3
Copper, Cu	mg/kg	0.5	<0.5
Lead, Pb	mg/kg	1	<1
Nickel, Ni	mg/kg	0.5	<0.5
Zinc, Zn	mg/kg	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Continued... Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB008319.001

Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.3	<0.3
Copper, Cu	mg/kg	0.5	<0.5
Lead, Pb	mg/kg	1	<1
Nickel, Ni	mg/kg	0.5	<0.5
Zinc, Zn	mg/kg	0.5	<0.5

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008299.001

TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	<50

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008486.001

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1

Oxygenated Compounds

MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	103
d4-1,2-dichloroethane (Surrogate)	%	-	100
d8-toluene (Surrogate)	%	-	95
Bromofluorobenzene (Surrogate)	%	-	101

Totals

Total BTEX*	mg/kg	-	0
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Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008572.001

TRH C6-C9	mg/kg	20	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	108
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Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103054.014-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
 LB008302.004

Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
Phenanthrene	mg/kg	0.1	0.2	0.1	104	22
Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Fluoranthene	mg/kg	0.1	0.4	0.3	57	16
Pyrene	mg/kg	0.1	0.4	0.4	55	15
Benzo(a)anthracene	mg/kg	0.1	0.2	0.2	91	6
Chrysene	mg/kg	0.1	0.2	0.2	83	21
Benzo(b)fluoranthene	mg/kg	0.1	0.3	0.3	66	4
Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.1	101	0
Benzo(a)pyrene	mg/kg	0.1	0.2	0.2	95	6
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	0.2	99	7
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(ghi)perylene	mg/kg	0.1	0.2	0.2	78	10
Total PAH	mg/kg	0.8	2.3	2.1	67	9

Surrogates

d5-nitrobenzene (Surrogate)	%	-	111.0	124.0	30	11
2-fluorobiphenyl (Surrogate)	%	-	91.0	106.0	30	15
d14-p-terphenyl (Surrogate)	%	-	112.0	127.0	30	13

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
 LB008299.005

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0
TRH C29-C40	mg/kg	150	<150	<150	200	0

Sample Name			SE103054.031-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008301.009

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
Lindane	mg/kg	0.1	<0.1	<0.1	200	0
Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
Dieldrin	mg/kg	0.05	<0.1	<0.1	200	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103054.031-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Continued... OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008301.009

Endrin	mg/kg	0.2	<0.2	<0.2	200	0
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	90	30	3
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PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008301.009

Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	90	30	3
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Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289
 LB008491.004

Total Phenols	mg/kg	0.1	0.6	0.6	30	0
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Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103054.035-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury in Soil Method: ME-(AU)-[ENV]AN312
 LB008322.014

Mercury	mg/kg	0.05	0.31	0.35	45	14
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Sample Name		SE103054.038-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB008317.014

Arsenic, As	mg/kg	3	7	7	74	1
Cadmium, Cd	mg/kg	0.3	0.3	0.3	120	1
Chromium, Cr	mg/kg	0.3	16	16	32	3
Copper, Cu	mg/kg	0.5	26	25	32	1
Lead, Pb	mg/kg	1	21	20	35	3
Nickel, Ni	mg/kg	0.5	5.0	4.9	40	3
Zinc, Zn	mg/kg	0.5	27	27	32	1

Sample Name		SE103054.044-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Moisture Content Method: ME-(AU)-[ENV]AN234
 LB008312.022

% Moisture	%	0.5	8.3	8.2	36	1
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Sample Name		SE103054.048-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB008317.021

Arsenic, As	mg/kg	3	9	9	64	3
Cadmium, Cd	mg/kg	0.3	0.4	0.4	105	7
Chromium, Cr	mg/kg	0.3	16	16	32	1
Copper, Cu	mg/kg	0.5	31	31	32	2
Lead, Pb	mg/kg	1	25	25	34	1
Nickel, Ni	mg/kg	0.5	8.6	8.6	36	0
Zinc, Zn	mg/kg	0.5	61	63	31	4

Sample Name		SE103054.049-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury in Soil Method: ME-(AU)-[ENV]AN312
 LB008322.024

Mercury	mg/kg	0.05	<0.05	<0.05	200	0
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Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name SE103054.050-DUP						
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Moisture Content Method: ME-(AU)-[ENV]AN234						
LB008312.029						
% Moisture	%	0.5	11	9.8	35	11

Sample Name SE103066.008-DUP						
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320						
LB008318.014						
Arsenic, As	mg/kg	3	17	17	48	1
Cadmium, Cd	mg/kg	0.3	0.9	0.9	62	1
Chromium, Cr	mg/kg	0.3	40	40	31	1
Copper, Cu	mg/kg	0.5	80	82	31	3
Lead, Pb	mg/kg	1	44	36	33	19
Nickel, Ni	mg/kg	0.5	11	13	34	20
Zinc, Zn	mg/kg	0.5	250	260	30	5

Sample Name SE103066.009-DUP						
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Mercury in Soil Method: ME-(AU)-[ENV]AN312						
LB008323.014						
Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Sample Name SE103066.010-DUP						
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Mercury in Soil Method: ME-(AU)-[ENV]AN312						
LB008323.016						
Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Sample Name SE103066.017-DUP						
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320						
LB008318.017						
Arsenic, As	mg/kg	3	12	14	53	10
Cadmium, Cd	mg/kg	0.3	0.7	0.8	70	20
Chromium, Cr	mg/kg	0.3	36	38	31	7
Copper, Cu	mg/kg	0.5	8.4	8.1	36	4
Lead, Pb	mg/kg	1	30	32	33	5
Nickel, Ni	mg/kg	0.5	3.7	3.7	44	1
Zinc, Zn	mg/kg	0.5	15	16	33	4

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103066.011-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
 LB008427.009

Mercury	µg/L	0.0001	<0.0001	<0.0001	86	65
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Sample Name		SE103082.002-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
 LB008302.016

Naphthalene	mg/kg	0.1	0	<0.1	200	0
2-methylnaphthalene	mg/kg	0.1	0	<0.1	200	0
1-methylnaphthalene	mg/kg	0.1	0	<0.1	200	0
Acenaphthylene	mg/kg	0.1	0	<0.1	200	0
Acenaphthene	mg/kg	0.1	0	<0.1	200	0
Fluorene	mg/kg	0.1	0	<0.1	200	0
Phenanthrene	mg/kg	0.1	0.08	0.1	121	33
Anthracene	mg/kg	0.1	0	<0.1	200	0
Fluoranthene	mg/kg	0.1	0.27	0.4	59	46
Pyrene	mg/kg	0.1	0.34	0.5	55	30
Benzo(a)anthracene	mg/kg	0.1	0.14	0.2	97	13
Chrysene	mg/kg	0.1	0.11	0.2	107	31
Benzo(b)fluoranthene	mg/kg	0.1	0.3	0.4	60	18
Benzo(k)fluoranthene	mg/kg	0.1	0.11	0.2	107	31
Benzo(a)pyrene	mg/kg	0.1	0.15	0.2	89	24
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.12	0.2	104	22
Dibenzo(a&h)anthracene	mg/kg	0.1	0	<0.1	200	0
Benzo(ghi)perylene	mg/kg	0.1	0.18	0.2	81	15
Total PAH	mg/kg	0.8	1.8	2.4	68	29

Surrogates

d5-nitrobenzene (Surrogate)	%	-	109	112.0	30	3
2-fluorobiphenyl (Surrogate)	%	-	111	110.0	30	1
d14-p-terphenyl (Surrogate)	%	-	120	122.0	30	2

Sample Name		SE103082.003-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434
 LB008486.015
 Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	0	<0.1	200	0
Toluene	mg/kg	0.1	0	<0.1	200	0
Ethylbenzene	mg/kg	0.1	0	<0.1	200	0
m/p-xylene	mg/kg	0.2	0	<0.2	200	0
o-xylene	mg/kg	0.1	0	<0.1	200	0

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	0	<0.1	200	0
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	101	100.0	50	1
d4-1,2-dichloroethane (Surrogate)	%	-	102	99.0	50	3

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103082.003-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %
Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434						
LB008486.015						
d8-toluene (Surrogate)	%	-	101	96.0	50	5
Bromofluorobenzene (Surrogate)	%	-	101	99.0	50	2
Totals						
Total BTEX*	mg/kg	-	0	0	200	NA
Total Xylenes*	mg/kg	0.3	0	<0.3	200	0
Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434						
LB008572.013						
TRH C6-C9	mg/kg	20	0	<20	200	0
Surrogates						
Trifluorotoluene (Surrogate)	%	-	81	62	30	27

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report.
Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
LB008427.002

Mercury	mg/L	0.0001	0.0079	0.008	80 - 120	98
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Mercury in Soil Method: ME-(AU)-[ENV]AN312
LB008322.002

Mercury	mg/kg	0.05	0.20	0.2	70 - 130	98
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LB008323.002

Mercury	mg/kg	0.05	0.19	0.2	70 - 130	97
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Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321
LB008557.002

Arsenic, As	mg/L	0.05	1.9	2	80 - 120	94
Cadmium, Cd	mg/L	0.005	1.9	2	80 - 120	96
Chromium, Cr	mg/L	0.005	1.9	2	80 - 120	96
Copper, Cu	mg/L	0.01	2.0	2	80 - 120	98
Lead, Pb	mg/L	0.02	1.9	2	80 - 120	97
Nickel, Ni	mg/L	0.01	1.9	2	80 - 120	96
Zinc, Zn	mg/L	0.01	1.9	2	80 - 120	95

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008301.002

Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	116
Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	115
Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	107
Dieldrin	mg/kg	0.05	0.2	0.2	60 - 140	110
Endrin	mg/kg	0.2	0.2	0.2	60 - 140	118
p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	116

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	92	100	60 - 140	92
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008302.002

Naphthalene	mg/kg	0.1	3.6	3.37	60 - 140	106
Acenaphthylene	mg/kg	0.1	3.4	3.37	60 - 140	101
Acenaphthene	mg/kg	0.1	4.0	3.37	60 - 140	120
Phenanthrene	mg/kg	0.1	3.6	3.37	60 - 140	107
Anthracene	mg/kg	0.1	3.7	3.37	60 - 140	110
Fluoranthene	mg/kg	0.1	3.6	3.37	60 - 140	107
Pyrene	mg/kg	0.1	3.8	3.37	60 - 140	112
Benzo(a)pyrene	mg/kg	0.1	3.8	3.37	60 - 140	112

Surrogates

d5-nitrobenzene (Surrogate)	%	-	116.0	100	60 - 140	116
2-fluorobiphenyl (Surrogate)	%	-	106.0	100	60 - 140	106
d14-p-terphenyl (Surrogate)	%	-	115.0	100	60 - 140	115

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008301.002

Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	118
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report.

Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %

Continued... PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

LB008301.002

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99	100	60 - 140	99
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Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289

LB008491.002

Total Phenols	mg/kg	0.1	2.6	2.5	70 - 130	103
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB008317.002

Arsenic, As	mg/kg	3	51	50	80 - 120	103
Cadmium, Cd	mg/kg	0.3	53	50	80 - 120	105
Chromium, Cr	mg/kg	0.3	51	50	80 - 120	102
Copper, Cu	mg/kg	0.5	50	50	80 - 120	100
Lead, Pb	mg/kg	1	52	50	80 - 120	104
Nickel, Ni	mg/kg	0.5	52	50	80 - 120	105
Zinc, Zn	mg/kg	0.5	51	50	80 - 120	102

LB008318.002

Arsenic, As	mg/kg	3	52	50	80 - 120	104
Cadmium, Cd	mg/kg	0.3	53	50	80 - 120	106
Chromium, Cr	mg/kg	0.3	52	50	80 - 120	103
Copper, Cu	mg/kg	0.5	50	50	80 - 120	101
Lead, Pb	mg/kg	1	53	50	80 - 120	105
Nickel, Ni	mg/kg	0.5	53	50	80 - 120	107
Zinc, Zn	mg/kg	0.5	51	50	80 - 120	103

LB008319.002

Arsenic, As	mg/kg	3	51	50	80 - 120	101
Cadmium, Cd	mg/kg	0.3	52	50	80 - 120	104
Chromium, Cr	mg/kg	0.3	50	50	80 - 120	101
Copper, Cu	mg/kg	0.5	49	50	80 - 120	99
Lead, Pb	mg/kg	1	51	50	80 - 120	103
Nickel, Ni	mg/kg	0.5	52	50	80 - 120	104
Zinc, Zn	mg/kg	0.5	50	50	80 - 120	101

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008299.002

TRH C10-C14	mg/kg	20	41	40	60 - 140	103
TRH C15-C28	mg/kg	50	<50	40	60 - 140	103

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008486.002

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	2.7	2.27	60 - 140	119
Toluene	mg/kg	0.1	2.7	2.27	60 - 140	117
Ethylbenzene	mg/kg	0.1	2.9	2.27	60 - 140	128
m/p-xylene	mg/kg	0.2	5.9	4.54	60 - 140	129
o-xylene	mg/kg	0.1	2.9	2.27	60 - 140	127

Surrogates

Dibromofluoromethane (Surrogate)	%	-	101.0	100	60 - 140	101
d4-1,2-dichloroethane (Surrogate)	%	-	105.0	100	60 - 140	105
d8-toluene (Surrogate)	%	-	98.0	100	60 - 140	98

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %
Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434 LB008486.002						
Bromofluorobenzene (Surrogate)	%	-	106.0	100	60 - 140	106
Volatile Petroleum Hydrocarbons In Soil Method: ME-(AU)-[ENV]AN433/AN434 LB008572.002						
TRH C6-C9	mg/kg	20	30	23	60 - 140	130

Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control			MS		
	Units	LOR	Result	Original Result	Spike Added	Recovery %

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
LB008427.004

Mercury	mg/L	0.0001	0.0081	<0.0001	0.008	100
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Mercury in Soil Method: ME-(AU)-[ENV]AN312
LB008322.004

Mercury	mg/kg	0.05	0.20	<0.05	0.2	93
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LB008323.004

Mercury	mg/kg	0.05	0.18	<0.05	0.2	72
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OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008301.011

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	NA
Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	NA
Lindane	mg/kg	0.1	<0.1	<0.1	-	NA
Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	119
Aldrin	mg/kg	0.1	0.3	<0.1	0.2	128
Beta BHC	mg/kg	0.1	<0.1	<0.1	-	NA
Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	120
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	NA
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	NA
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	NA
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	NA
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	NA
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	NA
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	NA
Dieldrin	mg/kg	0.05	0.2	<0.1	0.2	116
Endrin	mg/kg	0.2	0.2	<0.2	0.2	120
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	NA
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	NA
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	NA
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	NA
p,p'-DDT	mg/kg	0.1	0.1	<0.1	0.2	74
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	NA
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	NA
Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	NA
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	NA

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	120	110	100	119
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008302.007

Naphthalene	mg/kg	0.1	4.0	<0.1	3.37	117
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	NA
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	NA
Acenaphthylene	mg/kg	0.1	4.1	0.2	3.37	115
Acenaphthene	mg/kg	0.1	4.5	<0.1	3.37	135
Fluorene	mg/kg	0.1	<0.1	<0.1	-	NA
Phenanthrene	mg/kg	0.1	4.7	1.1	3.37	106
Anthracene	mg/kg	0.1	4.2	0.4	3.37	114
Fluoranthene	mg/kg	0.1	5.0	2.0	3.37	89
Pyrene	mg/kg	0.1	5.3	2.0	3.37	99
Benzo(a)anthracene	mg/kg	0.1	<0.1	1.3	-	NA
Chrysene	mg/kg	0.1	<0.1	0.8	-	NA
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	1.2	-	NA

Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %

Continued... PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008302.007

Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.4	-	NA
Benzo(a)pyrene	mg/kg	0.1	5.0	1.0	3.37	121
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.5	-	NA
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	0.1	-	NA
Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.6	-	NA
Total PAH	mg/kg	0.8	37	11	-	NA

Surrogates

d5-nitrobenzene (Surrogate)	%	-	108.0	109.0	100	108
2-fluorobiphenyl (Surrogate)	%	-	103.0	101.0	100	103
d14-p-terphenyl (Surrogate)	%	-	111.0	107.0	100	111

Total Phenolics in Soil Method: ME-(AU)-[ENV]AN289
LB008491.006

Total Phenols	mg/kg	0.1	2.5	1.2	2.5	54†
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
LB008318.004

Arsenic, As	mg/kg	3	50	11	50	79
Cadmium, Cd	mg/kg	0.3	41	0.4	50	82
Chromium, Cr	mg/kg	0.3	56	18	50	75
Copper, Cu	mg/kg	0.5	54	14	50	79
Lead, Pb	mg/kg	1	60	24	50	72
Nickel, Ni	mg/kg	0.5	48	7.2	50	81
Zinc, Zn	mg/kg	0.5	80	40	50	81

LB008319.004

Arsenic, As	mg/kg	3	45	<3	50	85
Cadmium, Cd	mg/kg	0.3	44	<0.3	50	88
Chromium, Cr	mg/kg	0.3	51	8.9	50	85
Copper, Cu	mg/kg	0.5	51	9.5	50	84
Lead, Pb	mg/kg	1	52	11	50	82
Nickel, Ni	mg/kg	0.5	50	6.6	50	88
Zinc, Zn	mg/kg	0.5	64	20	50	87

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
LB008299.008

TRH C10-C14	mg/kg	20	48	<20	40	118
TRH C15-C28	mg/kg	50	51	<50	40	118
TRH C29-C40	mg/kg	150	<150	<150	-	NA

Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %
VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434						
LB008486.004						
Monocyclic Aromatic Hydrocarbons						
Benzene	mg/kg	0.1	2.6	<0.1	2.27	113
Toluene	mg/kg	0.1	2.7	<0.1	2.27	118
Ethylbenzene	mg/kg	0.1	2.9	<0.1	2.27	127
m/p-xylene	mg/kg	0.2	5.7	<0.2	4.54	126
o-xylene	mg/kg	0.1	2.8	<0.1	2.27	123
Oxygenated Compounds						
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	-	NA
Surrogates						
Dibromofluoromethane (Surrogate)	%	-	102.0	102.0	100	102
d4-1,2-dichloroethane (Surrogate)	%	-	103.0	102.0	100	103
d8-toluene (Surrogate)	%	-	102.0	101.0	100	102
Bromofluorobenzene (Surrogate)	%	-	102.0	97.0	100	102
Totals						
Total BTEX*	mg/kg	-	17	0	-	NA
Total Xylenes*	mg/kg	0.3	8.5	<0.3	-	NA
Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434						
LB008572.004						
TRH C6-C9	mg/kg	20	31	<20	23	133
Surrogates						
Trifluorotoluene (Surrogate)	%	-	121	116	-	121

Matrix spike duplicates are calculated as relative percent difference using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The original result is the analyte concentration of the matrix spike and the replicate result is the analyte concentration of the matrix spike duplicate.
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

No Matrix Spike Duplicates were required for this job.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	NATA Accreditation does not cover this analysis.	NA	The sample was not analysed for this analyte
^	Performed by outside laboratory.		
LOR	Limit of Reporting		

Samples analysed as received.
 Solid samples expressed on a dry weight basis.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This test report shall not be reproduced, except in full.

CLIENT DETAILS

Contact Anwar Barbhuyia
 Client Geotechnique
 Address P.O. Box 880
 PENRITH NSW 2751

Telephone 02 4722 2700
 Facsimile 02 4722 6161
 Email anwar.barbhuyia@geotech.com.au

Project **12576/1 - Marsden Park Precinct**
 Order Number (Not specified)
 Samples 50

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
 Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

SGS Reference SE103054 R0
 Report Number 0000011635
 Date Reported 11/11/2011 6:23:56PM
 Date Received 03 Nov 2011

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
 Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

No respirable fibres detected using trace analysis technique.
 Asbestos analysed by Approved Identifier Yusuf Kuthpuhin.

SIGNATORIES



Andy Sutton
Organics Chemist



Dong Liang
Inorganics Metals Team Leader



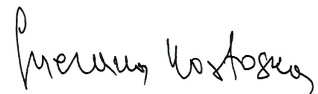
Huong Crawford
Laboratory Manager



Ly Kim Ha
Organics Supervisor



Ravee Sivasubramaniam
Hygienist



Snezana Kostoska
Inorganics Chemist

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w
SE103054.024	TP55 0-0.3	Soil	30g Soil,rocks	02 Nov 2011	No Asbestos Found Organic Fibres Detected	<0.01
SE103054.035	SP1	Soil	26g Soil	02 Nov 2011	No Asbestos Found Organic Fibres Detected	<0.01

RESULTS

Fibre ID in bulk materials

Method **AN602**

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est. %w/w
SE103054.025	TP55 0-0.3_ZLB	Other	45x30x6 mm Cement sheet fragments	02 Nov 2011	Amosite & Chrysotile Asbestos Found Organic Fibres Detected	
SE103054.036	SP1_ZLB	Other	35x25x6 mm Cement sheet fragments	02 Nov 2011	Chrysotile Asbestos Found	

METHOD

METHODOLOGY SUMMARY

AN602

Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible.

FOOTNOTES

Amosite	- Brown Asbestos	NA	- Not Analysed
Chrysotile	- White Asbestos	LNR	- Listed Not Required
Crocidolite	- Blue Asbestos	*	- Not Accredited

AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Sampled by the client

Where reported: 'Asbestos Detected':
Asbestos detected by polarized light microscopy, including dispersion staining

Where reported: 'No Asbestos Found':
No Asbestos Found by polarized light microscopy, including dispersion staining

Where reported: 'UMF Detected':
Mineral fibres of unknown type detected by polarized light microscopy, including dispersion staining.
Confirmation by another independent analytical technique may be necessary

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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This test report shall not be reproduced, except in full.

COE received 4/11/11 @ 1:02 pm



received By: S.S. 08/11/11
 Time: 2:30 PM
 Samples Intact:
 Seal/Code: Pack: 02
 Temperature on Receipt: 21.7°C
 Storage Location: 8775-8 W028-ASR
 SE 103054

Laboratory Test Request / Chain of Custody Record

Lemko Place P O Box 880
 PENRITH NSW 2750 PENRITH NSW 2751
 Tel: (02) 4722 2700 Fax: (02) 4722 6161
 email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES
 UNIT 16
 33 MADDOX STREET
 ALEXANDRIA NSW 2015
 PH: 02 8594 0400 FAX: 02 8594 0499
 ATTN: MS ANGELA MAMALICOS

Project Manager: AB
 Location: Marsden Park Precinct
 Sampling By: AN
 Job No: 12576/1
 Project:

Results required by: Normal Turnaround Time

Location	Depth (m)	Date	Time	Sample type		Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB	ASBESTOS	KEEP SAMPLE
				Soil	Material							
1. TP3	0-0.1	31/10/2011	-	SG								YES
2. TP17	0-0.1	31/10/2011	-	SG								YES
3. TP20	0-0.15	31/10/2011	-	SG								YES
4. TP37	0-0.15	1/11/2011	-	SG								YES
5. TP38	0-0.15	1/11/2011	-	SG								YES
6. TP39	0-0.1	1/11/2011	-	SG								YES
7. TP40	0-0.15	1/11/2011	-	SG								YES
8. TP41	0-0.15	1/11/2011	-	SG				✓				YES
9. TP42	0-0.1	1/11/2011	-	SG								YES
10. TP43	0-0.15	1/11/2011	-	SG								YES
11. TP44	0-0.1	1/11/2011	-	SG								YES
12. TP45	0-0.1	1/11/2011	-	SG								YES

Relinquished by: ANWAR BARBHUYIA Signature: AB Date: 4/11/2011

Received by: Suba Signature: [Signature] Date: 08/11/11

Legend:
 WG Water sample, glass bottle SG Soil sample (glass jar) SP Soil sample (plastic bag) * Purge & Trap
 WP Water sample, plastic bottle FCP Fibro Cement Piece Test required

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

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

TO: SGS ENVIRONMENTAL SERVICES

UNIT 16
33 MADDOX STREET
ALEXANDRIA NSW 2015

Project Manager: AN

Job No: 12576/1

Project:

Page 2 of 6

PH: 02 8594 0400

FAX: 02 8594 0499

Project Manager: AB

Location: Marsden Park Precinct

ATTN: MS ANGELA MAMALICOS

Results required by: Normal Turnaround Time

Location	Depth (m)	Date	Time	Sample type		Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB	ASBESTOS	KEEP SAMPLE
				Soil	Material							
13 TP46	0-0.1	1/11/2011	-	SG								YES
14 TP47	0-0.2	1/11/2011	-	SG/SP		✓	✓	✓	✓			YES
15 TP47	0.5-0.8	1/11/2011	-	SG								YES
TP47	1.0-1.3	1/11/2011	-	SG								YES
16 TP48	0-0.1	1/11/2011	-	SG								YES
17 TP49	0-0.15	1/11/2011	-	SG								YES
18 TP50	0-0.15	1/11/2011	-	SG		✓		✓				YES
19 TP50	0.3-0.6	1/11/2011	-	SG								YES
20 TP51	0-0.15	1/11/2011	-	SG								YES
21 TP52	0-0.15	1/11/2011	-	SG								YES
22 TP53	0-0.3	2/11/2011	-	SG/SP		✓	✓	✓	✓			YES
TP53	0.5-0.8	2/11/2011	-	SG/SP								YES

Relinquished by

Received by

Name: ANWAR BARBHUYIA
Signature: AB
Date: 4/11/2011
Name: Suba
Signature: [Signature]
Date: [Date]

Legend:
WG Water sample, glass bottle
WP Water sample, plastic bottle
SG Soil sample (glass jar)
FCP Fibro Cement Piece
SP Soil sample (plastic bag)
Test required

* Purge & Trap

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

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

TO: **SGS ENVIRONMENTAL SERVICES**
 UNIT 16
 33 MADDOX STREET
 ALEXANDRIA NSW 2015

PH: 02 8594 0400 FAX: 02 8594 0499

ATTN: **MS ANGELA MAMALICOS**

Project Manager: **AB** Location: **Marsden Park Precinct**

Sampling By: **AN** Job No: **12576/1**

Project:

Results required by: Normal Turnaround Time

Location	Sampling details			Soil	Material	Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB	ASBESTOS	KEEP SAMPLE
	Depth (m)	Date	Time									
TP53	1.0-1.2	2/11/2011	-	SG								YES
TP53	1.25-1.4	2/11/2011	-	SG								YES
23 TP54	0-0.3	2/11/2011	-	SG/SP								YES
TP54	0.35-0.5	2/11/2011	-	SG								YES
24 TP55	0-0.3	2/11/2011	-	SG/SP	FCP						✓	YES
25 TP55	0-0.3	2/11/2011	-	SG/SP							✓	YES
26 TP55	0.5-0.8	2/11/2011	-	SG								YES
TP55	1.05-1.2	2/11/2011	-	SG								YES
27 TP56	0-0.1	2/11/2011	-	SG								YES
28 TP57	0-0.1	2/11/2011	-	SG								YES
29 TP58	0-0.15	2/11/2011	-	SG								YES
30 TP59	0-0.3	2/11/2011	-	SG/SP		✓			✓			YES
TP59	0.5-0.8	2/11/2011	-	SG/SP								YES

Relinquished by: **ANWAR BARBHUYIA** Signature: *[Signature]* Date: **4/11/2011**

Received by: **[Signature]** Signature: *[Signature]* Date: **[Signature]**

Legend:
 WG Water sample, glass bottle SG Soil sample (glass jar) SP Soil sample (plastic bag) * Purge & Trap
 WP Water sample, plastic bottle FCP Fibro Cement Piece Test required

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

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

TO: SGS ENVIRONMENTAL SERVICES
 UNIT 16
 33 MADDOX STREET
 ALEXANDRIA NSW 2015

PH: 02 8594 0400 FAX: 02 8594 0499

Project Manager: AB

Job No: 12576/1
 Location: Marsden Park Precinct

ATTN: MS ANGELA MAMALICOS

Results required by: Normal Turnaround Time

Location	Sampling details			Soil	Material	Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB	ASBESTOS	PHENOLS	KEEP SAMPLE
	Depth (m)	Date	Time										
TP59	0.85-1.0	2/11/2011	-	SG									YES
31 AST1	0-0.2	31/10/2011	-	SG		✓	✓	✓	✓	✓		✓	YES
AST1	0.25-0.4	31/10/2011	-	SG									YES
AST1	0.7-0.8	31/10/2011	-	SG									YES
AST1	1.2-1.3	31/10/2011	-	SG									YES
32 UST1	0-0.3	31/10/2011	-	SG		✓	✓	✓	✓	✓		✓	YES
UST1	0.35-0.5	31/10/2011	-	SG									YES
UST1	0.9-1.0	31/10/2011	-	SG									YES
UST1	1.2-1.3	31/10/2011	-	SG									YES
33 SD4	0-0.1	1/11/2011	-	SG		✓	✓	✓	✓	✓		✓	YES
34 SD5	0-0.1	1/11/2011	-	SG		✓	✓	✓	✓	✓		✓	YES
35 SP1		2/11/2011	-	SG/SP			✓	✓	✓	✓		✓	YES
36 SP1		2/11/2011	-	SG/SP	FCP								YES

Relinquished by: ANWAR BARBHUYIA Signature: AB Date: 4/11/2011

Received by: *[Signature]* Signature: *[Signature]* Date: *[Date]*

Legend: WG Water sample, glass bottle SG Soil sample (glass jar) SP Soil sample (plastic bag) * Purge & Trap
 WP Water sample, plastic bottle FCP Fibro Cement Piece Test required

GEOTECHNIQUE PTY LTD

Laboratory Test Request / Chain of Custody Record

Lenko Place
 PENRITH NSW 2750
 P O Box 880
 PENRITH NSW 2751
 Tel: (02) 4722 2700
 Fax: (02) 4722 6161
 email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADOX STREET ALEXANDRIA NSW 2015
 PH: 02 8594 0400 FAX: 02 8594 0499

ATTN: MS ANGELA MAMALICOS

Project Manager: AB
 Location: Marsden Park Precinct
 Sampling By: AN
 Job No: 12576/1
 Page 5 of 6

Results required by: Normal Turnaround Time

Location	Sampling details				Soil	Water	Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB	ASBESTOS	BTEX	KEEP SAMPLE
	Depth (m)	Date	Time	Sample type										
Duplicate D1		28/10/2011	-	SG										YES
37 Duplicate D3		1/11/2011	-	SG				✓	✓	✓		✓		YES
38 Duplicate D4		1/11/2011	-	SG						✓				YES
Duplicate D5		2/11/2011	-	SG										YES
39 Rinsate R3		31/10/2011	-		WG									YES
40 Rinsate R4		1/11/2011	-		WG									YES
41 Rinsate R5		2/11/2011	-		WG									YES
42 Trip Spike TS1														YES

Name: ANWAR BARBHUYIA Relinquished by: Signature: AB Date: 4/11/2011

Received by: Signature: *[Signature]* Date: *[Date]*

Legend:
 WG Water sample, glass bottle
 WWP Water sample, plastic bottle
 SG Soil sample (glass jar)
 FCP Fibro Cement Piece
 SP Soil sample (plastic bag)
 * Purge & Trap
 Project: _____
 Job No: _____
 Location: Marsden Park Precinct
 Project Manager: AB
 Sampling By: AN
 Job No: 12576/1
 Page 5 of 6

SGS ENVIRONMENTAL SERVICES

Sampling Date: 31/10/2011 & 1 & 2/11/2011
 Sampled by: AN
 Project Manager: AB

Job No: 12576/1
 Location: Marsden Park Precinct

Results Required by: Normal TAT

Composite Sample	Sub-Samples	Analyte				
		Metals	PAH	OCP	PCB	
43 C12	TP3 (0-0.1m) + TP17 (0-0.1m) + TP20 (0-0.15m)	✓	-	✓	-	1+2+3
44 C13	TP37 (0-0.15m) + TP38 (0-0.15m) + TP40 (0-0.15m)	✓	-	✓	-	4+5+7
45 C14	TP39 (0-0.1m) + TP42 (0-0.1m) + TP43 (0-0.15m)	✓	-	✓	-	6+9+10
46 C15	TP44 (0-0.1m) + TP45 (0-0.1m) + TP46 (0-0.1m)	✓	-	✓	-	11+12+13
47 C16	TP47 (0.5-0.8m) + TP50 (0.3-0.6m) + TP55 (0.5-0.8m)	✓	✓	✓	✓	15+19+26
48 C17	TP48 (0-0.1m) + TP49 (0-0.15m) + TP51 (0-0.15m)	✓	-	✓	-	16+17+20
49 C18	TP52 (0-0.15m) + TP56 (0-0.1m) + TP57 (0-0.1m)	✓	-	✓	-	21+27+28
50 C19	TP54 (0-0.3m) + TP55 (0-0.3m) + TP58 (0-0.15m)	✓	✓	✓	✓	23+24+29

✓ Test required

Metals include arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni) and zinc (Zn);

PAH = Polycyclic Aromatic Hydrocarbons; OCP = Organochlorine Pesticides; PCB = Polychlorinated Biphenyls

AB
 4/11/2011
 (ANWAR BARBHUYIA)
 Geotechnique Pty Ltd

CLIENT DETAILS

Contact Anwar Barbhuyia
 Client Geotechnique
 Address P.O. Box 880
 PENRITH NSW 2751

Telephone 02 4722 2700
 Facsimile 02 4722 6161
 Email anwar.barbhuyia@geotech.com.au

Project **12576/1 - Marsden Park Precinct**
 Order Number (Not specified)
 Samples 50

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
 Address Unit 16, 33 Maddox St
 Alexandria NSW 2015

Telephone +61 2 8594 0400
 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

Samples Received Thu 3/11/2011
 Report Due Fri 11/11/2011
 SGS Reference **SE103054**

SUBMISSION DETAILS

This is to confirm that 50 samples were received on Thursday 3/11/2011. Results are expected to be ready by Friday 11/11/2011. Please quote SGS reference SE103054 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	36 Soil,2 Bulk,3 Water	Type of documentation received	COC
Date documentation received	04/11/2011@1:02pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

Chain of custody instructions received at SGS 04/11/2011 @ 1:02pm.
 16 soil jars and 7 plastic bags and have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
 Filtration and acidification will be conducted at SGS laboratory for dissolved metals analysis from the 1L amber bottle supplied.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

CLIENT DETAILS

Client	Geotechnique	Project	12576/1 - Marsden Park Precinct
--------	--------------	---------	---------------------------------

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in	PCBs in Soil	Total Recoverable Metals in Soil by ICPOES from	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
008	TP41 0-0.15	1	26	-	-	7	-	-	-
014	TP47 0-0.2	1	26	22	11	7	3	12	2
018	TP50 0-0.15	1	26	-	-	7	-	-	-
022	TP53 0-0.3	1	26	22	11	7	3	12	2

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client	Geotechnique	Project	12576/1 - Marsden Park Precinct
--------	--------------	---------	---------------------------------

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in	PCBs in Soil	Total Phenolics in Soil	Total Recoverable Metals in Soil by ICPOES from	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
030	TP59 0-0.3	1	26	22	-	-	7	-	-	-
031	AST1 0-0.2	1	26	22	11	1	7	3	12	2
032	UST1 0-0.3	1	26	22	11	1	7	3	12	2
033	SD4 0-0.1	1	26	-	-	-	7	-	-	-
034	SD5 0-0.1	1	26	-	-	-	7	-	-	-
035	SP1	1	26	22	11	-	7	3	12	2
037	Duplicate D3	1	26	22	11	-	7	3	12	2
038	Duplicate D4	1	26	-	-	-	7	-	-	-
042	Trip Spike TS1	-	-	-	-	-	-	-	12	-
043	C12	1	26	-	-	-	7	-	-	-
044	C13	1	26	-	-	-	7	-	-	-
045	C14	1	26	-	-	-	7	-	-	-
046	C15	1	26	-	-	-	7	-	-	-
047	C16	1	26	22	11	-	7	-	-	-
048	C17	1	26	-	-	-	7	-	-	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client	Geotechnique	Project	12576/1 - Marsden Park Precinct
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SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in	PCBs in Soil	Total Recoverable Metals in Soil by ICPOES from
049	C18	1	26	-	-	7
050	C19	1	26	22	11	7

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Moisture Content
008	TP41 0-0.15	-	1
014	TP47 0-0.2	-	1
018	TP50 0-0.15	-	1
022	TP53 0-0.3	-	1
024	TP55 0-0.3	2	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client	Geotechnique	Project	12576/1 - Marsden Park Precinct
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SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Fibre Identification in soil	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	Moisture Content
025	TP55 0-0.3_ZLB	1	-	-	-	-
030	TP59 0-0.3	-	-	-	-	1
031	AST1 0-0.2	-	-	-	-	1
032	UST1 0-0.3	-	-	-	-	1
033	SD4 0-0.1	-	-	-	-	1
034	SD5 0-0.1	-	-	-	-	1
035	SP1	-	2	-	-	1
036	SP1_ZLB	1	-	-	-	-
037	Duplicate D3	-	-	-	-	1
038	Duplicate D4	-	-	-	-	1
039	Rinsate R3	-	-	1	7	-
040	Rinsate R4	-	-	1	7	-
041	Rinsate R5	-	-	1	7	-
043	C12	-	-	-	-	1
044	C13	-	-	-	-	1
045	C14	-	-	-	-	1
046	C15	-	-	-	-	1
047	C16	-	-	-	-	1
048	C17	-	-	-	-	1

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.



SAMPLE RECEIPT ADVICE

SE103054

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct**

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content
049	C18	1
050	C19	1

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Contact **Anwar Barbhuyia**
Geotechnique
Client Address **P.O. Box 880
NSW 2751**

Telephone **02 4722 2700**
Facsimile **02 4722 6161**
Email **anwar.barbhuyia@geotech.com.au**

Project **12576/1 - Marsden Park Precinct-Add**
Order Number **(Not specified)**
Samples **20**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory Address **SGS Alexandria Environmental
Unit 16, 33 Maddox St
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**

SGS Reference **SE103054A R1**
Report Number **0000012796**
Date Reported **29 Nov 2011**
Date Received **03 Nov 2011**

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No.SE103054A issued by SGS Environmental Services due to the addition of silical clean up fraction C37-C40 for sample # 35.

SIGNATORIES



Andy Sutton
Organics Chemist



Huong Crawford
Laboratory Manager

Parameter	Units	LOR	Sample Number	SE103054A.001	SE103054A.002	SE103054A.003
			Sample Matrix	Soil	Soil	Soil
			Sample Date	31 Oct 2011	31 Oct 2011	31 Oct 2011
			Sample Name	TP3 0-0.1	TP17 0-0.1	TP20 0-0.15

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Benzene	mg/kg	0.1	-	-	-
Toluene	mg/kg	0.1	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-
o-xylene	mg/kg	0.1	-	-	-

Oxygenated Compounds

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-

Totals

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Total Xylenes*	mg/kg	0.3	-	-	-
Total BTEX*	mg/kg	-	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
TRH C6-C9	mg/kg	20	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Trifluorotoluene (Surrogate)	%	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
TRH C10-C14	mg/kg	20	-	-	-
TRH C15-C28	mg/kg	50	-	-	-
TRH C29-C40	mg/kg	150	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
TRH (Surrogate)	%	-	-	-	-

TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
TPH C10-C14 Silica Gel	mg/kg	20	-	-	-
TPH C15-C28 Silica Gel	mg/kg	45	-	-	-
TPH C29-C36 Silica Gel	mg/kg	45	-	-	-
TPH C37-C40 Silica Gel	mg/kg	100	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Naphthalene	mg/kg	0.1	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-
1-methylnaphthalene	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	-	-	-

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Sample Number			SE103054A.001	SE103054A.002	SE103054A.003
Sample Matrix			Soil	Soil	Soil
Sample Date			31 Oct 2011	31 Oct 2011	31 Oct 2011
Sample Name			TP3 0-0.1	TP17 0-0.1	TP20 0-0.15

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Benzo(b)fluoranthene	mg/kg	0.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-
Total PAH	mg/kg	0.8	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
d5-nitrobenzene (Surrogate)	%	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
Arsenic, As	mg/kg	3	-	-	-
Cadmium, Cd	mg/kg	0.3	0.9	0.3	6.7
Zinc, Zn	mg/kg	0.5	24	6.9	1000

Moisture Content Method: AN234

Parameter	Units	LOR	SE103054A.001	SE103054A.002	SE103054A.003
% Moisture	%	0.5	9.0	14	18

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Sample Number			SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Sample Matrix			Soil	Soil	Soil	Soil
Sample Date			01 Nov 2011	01 Nov 2011	01 Nov 2011	01 Nov 2011
Sample Name			TP44 0-0.1	TP45 0-0.1	TP46 0-0.1	TP47 0.5-0.8

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Benzene	mg/kg	0.1	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-

Oxygenated Compounds

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Total Xylenes*	mg/kg	0.3	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-

Parameter	Units	LOR	SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Sample Number			SE103054A.011	SE103054A.012	SE103054A.013	SE103054A.015
Sample Matrix			Soil	Soil	Soil	Soil
Sample Date			01 Nov 2011	01 Nov 2011	01 Nov 2011	01 Nov 2011
Sample Name			TP44 0-0.1	TP45 0-0.1	TP46 0-0.1	TP47 0.5-0.8

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-
TRH C15-C28	mg/kg	50	-	-	-	-
TRH C29-C40	mg/kg	150	-	-	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-	-
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

TPH C10-C14 Silica Gel	mg/kg	20	-	-	-	-
TPH C15-C28 Silica Gel	mg/kg	45	-	-	-	-
TPH C29-C36 Silica Gel	mg/kg	45	-	-	-	-
TPH C37-C40 Silica Gel	mg/kg	100	-	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-
Total PAH	mg/kg	0.8	-	-	-	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	6	6	8	8
Cadmium, Cd	mg/kg	0.3	-	-	-	-
Zinc, Zn	mg/kg	0.5	-	-	-	-

Moisture Content Method: AN234

% Moisture	%	0.5	6.8	9.4	8.3	13
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Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
Sample Number			SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
Sample Matrix			Soil	Soil	Soil	Soil
Sample Date			01 Nov 2011	01 Nov 2011	01 Nov 2011	01 Nov 2011
Sample Name			TP48 0-0.1	TP49 0-0.15	TP50 0.3-0.6	TP51 0-0.15

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
Benzene	mg/kg	0.1	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes*	mg/kg	0.3	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-
TRH C15-C28	mg/kg	50	-	-	-	-
TRH C29-C40	mg/kg	150	-	-	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-	-
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

TPH C10-C14 Silica Gel	mg/kg	20	-	-	-	-
TPH C15-C28 Silica Gel	mg/kg	45	-	-	-	-
TPH C29-C36 Silica Gel	mg/kg	45	-	-	-	-
TPH C37-C40 Silica Gel	mg/kg	100	-	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
			Sample Matrix	Soil	Soil	Soil	Soil
			Sample Date	01 Nov 2011	01 Nov 2011	01 Nov 2011	01 Nov 2011
			Sample Name	TP48 0-0.1	TP49 0-0.15	TP50 0.3-0.6	TP51 0-0.15

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-
Total PAH	mg/kg	0.8	-	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
Arsenic, As	mg/kg	3	9	8	5	10
Cadmium, Cd	mg/kg	0.3	-	-	-	-
Zinc, Zn	mg/kg	0.5	-	-	-	-

Moisture Content Method: AN234

Parameter	Units	LOR	SE103054A.016	SE103054A.017	SE103054A.019	SE103054A.020
% Moisture	%	0.5	12	9.7	15	13

Parameter	Units	LOR	Sample Number	SE103054A.021	SE103054A.023	SE103054A.024
			Sample Matrix	Soil	Soil	Soil
			Sample Date	01 Nov 2011	02 Nov 2011	02 Nov 2011
			Sample Name	TP52 0-0.15	TP54 0-0.3	TP55 0-0.3

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
Benzene	mg/kg	0.1	-	-	-
Toluene	mg/kg	0.1	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-
o-xylene	mg/kg	0.1	-	-	-

Oxygenated Compounds

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-

Totals

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
Total Xylenes*	mg/kg	0.3	-	-	-
Total BTEX*	mg/kg	-	-	-	-

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
Sample Number			SE103054A.021	SE103054A.023	SE103054A.024
Sample Matrix			Soil	Soil	Soil
Sample Date			01 Nov 2011	02 Nov 2011	02 Nov 2011
Sample Name			TP52 0-0.15	TP54 0-0.3	TP55 0-0.3

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

Parameter	Units	LOR	SE103054A.021	SE103054A.023	SE103054A.024
TRH C6-C9	mg/kg	20	-	-	-

Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-
TRH C15-C28	mg/kg	50	-	-	-
TRH C29-C40	mg/kg	150	-	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

TPH C10-C14 Silica Gel	mg/kg	20	-	-	-
TPH C15-C28 Silica Gel	mg/kg	45	-	-	-
TPH C29-C36 Silica Gel	mg/kg	45	-	-	-
TPH C37-C40 Silica Gel	mg/kg	100	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-
Total PAH	mg/kg	0.8	-	-	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	10	8	6
Cadmium, Cd	mg/kg	0.3	-	-	-
Zinc, Zn	mg/kg	0.5	-	39	220

Moisture Content Method: AN234

% Moisture	%	0.5	8.0	10	6.1
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Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
Sample Number			SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
Sample Matrix			Soil	Soil	Soil	Soil
Sample Date			02 Nov 2011	02 Nov 2011	02 Nov 2011	02 Nov 2011
Sample Name			TP55 0.5-0.8	TP56 0-0.1	TP57 0-0.1	TP58 0-0.15

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
Benzene	mg/kg	0.1	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

Totals

Total Xylenes*	mg/kg	0.3	-	-	-	-
Total BTEX*	mg/kg	-	-	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-
TRH C15-C28	mg/kg	50	-	-	-	-
TRH C29-C40	mg/kg	150	-	-	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-	-
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

TPH C10-C14 Silica Gel	mg/kg	20	-	-	-	-
TPH C15-C28 Silica Gel	mg/kg	45	-	-	-	-
TPH C29-C36 Silica Gel	mg/kg	45	-	-	-	-
TPH C37-C40 Silica Gel	mg/kg	100	-	-	-	-

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	-

Parameter	Units	LOR	Sample Number	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
			Sample Matrix	Soil	Soil	Soil	Soil
			Sample Date	02 Nov 2011	02 Nov 2011	02 Nov 2011	02 Nov 2011
			Sample Name	TP55 0.5-0.8	TP56 0-0.1	TP57 0-0.1	TP58 0-0.15

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-
Total PAH	mg/kg	0.8	-	-	-	-

Surrogates

Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
Arsenic, As	mg/kg	3	14	8	11	5
Cadmium, Cd	mg/kg	0.3	-	-	-	-
Zinc, Zn	mg/kg	0.5	-	-	-	51

Moisture Content Method: AN234

Parameter	Units	LOR	SE103054A.026	SE103054A.027	SE103054A.028	SE103054A.029
% Moisture	%	0.5	8.8	11	11	17

Parameter	Units	LOR	Sample Number	SE103054A.035
			Sample Matrix	Soil
			Sample Date	02 Nov 2011
			Sample Name	SP1

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103054A.035
Benzene	mg/kg	0.1	-
Toluene	mg/kg	0.1	-
Ethylbenzene	mg/kg	0.1	-
m/p-xylene	mg/kg	0.2	-
o-xylene	mg/kg	0.1	-

Oxygenated Compounds

Parameter	Units	LOR	SE103054A.035
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	-

Surrogates

Parameter	Units	LOR	SE103054A.035
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-

Totals

Parameter	Units	LOR	SE103054A.035
Total Xylenes*	mg/kg	0.3	-
Total BTEX*	mg/kg	-	-

Sample Number SE103054A.035
 Sample Matrix Soil
 Sample Date 02 Nov 2011
 Sample Name SP1

Parameter	Units	LOR
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Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-
TRH C15-C28	mg/kg	50	-
TRH C29-C40	mg/kg	150	-

Surrogates

TRH (Surrogate)	%	-	-
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

TPH C10-C14 Silica Gel	mg/kg	20	<20
TPH C15-C28 Silica Gel	mg/kg	45	290
TPH C29-C36 Silica Gel	mg/kg	45	270
TPH C37-C40 Silica Gel	mg/kg	100	<100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-
2-methylnaphthalene	mg/kg	0.1	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	-
Benzo(a)pyrene	mg/kg	0.1	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-
Benzo(ghi)perylene	mg/kg	0.1	-
Total PAH	mg/kg	0.8	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-

Sample Number SE103054A.035
 Sample Matrix Soil
 Sample Date 02 Nov 2011
 Sample Name SP1

Parameter Units LOR

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	-
Cadmium, Cd	mg/kg	0.3	-
Zinc, Zn	mg/kg	0.5	-

Moisture Content Method: AN234

% Moisture	%	0.5	-
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Sample Number SE103054A.051
 Sample Matrix Soil
 Sample Date 31 Oct 2011
 Sample Name AST1 0.25-0.4

Parameter Units LOR

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	98
d4-1,2-dichloroethane (Surrogate)	%	-	100
d8-toluene (Surrogate)	%	-	98
Bromofluorobenzene (Surrogate)	%	-	101

Totals

Total Xylenes*	mg/kg	0.3	<0.3
Total BTEX*	mg/kg	-	0

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	68
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	580
TRH C29-C40	mg/kg	150	<150

Surrogates

TRH (Surrogate)	%	-	-
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Sample Number SE103054A.051
 Sample Matrix Soil
 Sample Date 31 Oct 2011
 Sample Name AST1 0.25-0.4

Parameter	Units	LOR
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TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: AN403

Parameter	Units	LOR
TPH C10-C14 Silica Gel	mg/kg	20
TPH C15-C28 Silica Gel	mg/kg	45
TPH C29-C36 Silica Gel	mg/kg	45
TPH C37-C40 Silica Gel	mg/kg	100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Parameter	Units	LOR
Naphthalene	mg/kg	0.1
2-methylnaphthalene	mg/kg	0.1
1-methylnaphthalene	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	0.2
Pyrene	mg/kg	0.2
Benzo(a)anthracene	mg/kg	0.1
Chrysene	mg/kg	0.1
Benzo(b)fluoranthene	mg/kg	0.1
Benzo(k)fluoranthene	mg/kg	0.1
Benzo(a)pyrene	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1
Dibenzo(a&h)anthracene	mg/kg	0.1
Benzo(ghi)perylene	mg/kg	0.1
Total PAH	mg/kg	0.8

Surrogates

Parameter	Units	LOR
d5-nitrobenzene (Surrogate)	%	76
2-fluorobiphenyl (Surrogate)	%	76
d14-p-terphenyl (Surrogate)	%	85

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Parameter	Units	LOR
Arsenic, As	mg/kg	3
Cadmium, Cd	mg/kg	0.3
Zinc, Zn	mg/kg	0.5

Moisture Content Method: AN234

Parameter	Units	LOR
% Moisture	%	5.9

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Moisture Content Method: ME-(AU)-[ENV]AN234

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB008993	%	0.5	0 - 18%

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB008859	mg/kg	0.1	<0.1	0%	101%	110%
2-methylnaphthalene	LB008859	mg/kg	0.1	<0.1		NA	
1-methylnaphthalene	LB008859	mg/kg	0.1	<0.1		NA	
Acenaphthylene	LB008859	mg/kg	0.1	<0.1	0%	104%	109%
Acenaphthene	LB008859	mg/kg	0.1	<0.1	0%	112%	125%
Fluorene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Phenanthrene	LB008859	mg/kg	0.1	<0.1	0%	115%	113%
Anthracene	LB008859	mg/kg	0.1	<0.1	0%	105%	117%
Fluoranthene	LB008859	mg/kg	0.1	<0.1	0%	102%	113%
Pyrene	LB008859	mg/kg	0.1	<0.1	0%	108%	117%
Benzo(a)anthracene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Chrysene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(b)fluoranthene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(k)fluoranthene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(a)pyrene	LB008859	mg/kg	0.1	<0.1	0%	112%	115%
Indeno(1,2,3-cd)pyrene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Dibenzo(a&h)anthracene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB008859	mg/kg	0.1	<0.1	0%	NA	NA
Total PAH	LB008859	mg/kg	0.8	<0.8		NA	

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB008859	%	-	116%	9%	109%	79%
2-fluorobiphenyl (Surrogate)	LB008859	%	-	109%	10%	101%	78%
d14-p-terphenyl (Surrogate)	LB008859	%	-	123%	4%	114%	93%

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB009078	mg/kg	3	<3	3 - 9%	98%	
Cadmium, Cd	LB009078	mg/kg	0.3	<0.3	6%	101%	88%
Zinc, Zn	LB009078	mg/kg	0.5	<0.5	5 - 6%	101%	93%

TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TPH C10-C14 Silica Gel	LB008856	mg/kg	20	<20	103%
TPH C15-C28 Silica Gel	LB008856	mg/kg	45	<45	110%
TPH C29-C36 Silica Gel	LB008856	mg/kg	45	<45	105%

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB008856	mg/kg	20	<20	0%	105%	118%
TRH C15-C28	LB008856	mg/kg	50	<50	0%	103%	113%
TRH C29-C40	LB008856	mg/kg	150	<150		NA	

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB008851	mg/kg	0.1	<0.1	0%	119%	80%
Toluene	LB008851	mg/kg	0.1	<0.1	0%	122%	80%
Ethylbenzene	LB008851	mg/kg	0.1	<0.1	0%	121%	83%
m/p-xylene	LB008851	mg/kg	0.2	<0.2	0%	120%	83%
o-xylene	LB008851	mg/kg	0.1	<0.1	0%	119%	81%

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery	MS %Recovery
MtBE (Methyl-tert-butyl ether)	LB008851	mg/kg	0.1	<0.1	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB008851	%	-	95%	0 - 1%	94%	101%
d4-1,2-dichloroethane (Surrogate)	LB008851	%	-	90%	2%	93%	102%
d8-toluene (Surrogate)	LB008851	%	-	106%	1%	106%	101%
Bromofluorobenzene (Surrogate)	LB008851	%	-	98%	1 - 2%	98%	100%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Xylenes*	LB008851	mg/kg	0.3	<0.3	0%	NA	NA
Total BTEX*	LB008851	mg/kg	-	0	NA	NA	NA

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB008851	mg/kg	20	<20	0%	94%	93%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB008851	%	-	67%	6 - 10%	73%	70%

METHOD	METHODOLOGY SUMMARY
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433/AN434	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	This analysis is not covered by the scope of accreditation.	-	The sample was not analysed for this analyte
^	Performed by outside laboratory.	NVL	Not Validated
LOR	Limit of Reporting		
↑↓	Raised or Lowered Limit of Reporting		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
<http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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STATEMENT OF QA/QC PERFORMANCE AGAINST DATA QUALITY OBJECTIVES

SE103054A R1

CLIENT DETAILS

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Project **12576/1 - Marsden Park Precinct-Add**
Order Number (Not specified)
Samples 20

LABORATORY DETAILS

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SGS Reference SE103054A R1
Report Number 0000012798
Date Reported 29 Nov 2011

COMMENTS

All the laboratory data for each environmental matrix was compared to the SGS Environmental Services' stated data quality objectives (DQO).

Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the chain of custody document and was supplied by the client.

This QA/QC statement must be read in conjunction with the referenced analytical report.

The statement and the analytical report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Moisture Content	19 Items
	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	1 Item
	TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil	1 Item
	TRH (Total Recoverable Hydrocarbons) in Soil	1 Item
	VOC's in Soil	1 Item
	Volatile Petroleum Hydrocarbons in Soil	1 Item

SAMPLE SUMMARY

Sample counts by matrix	20 Soils	Type of documentation received	Email
Date documentation received	14/11/11@4:50pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Moisture Content Method: ME-(AU)-[ENV]AN234								
TP3 0-0.1	SE103054A.001	LB008993	31 Oct 2011	03 Nov 2011	14 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP17 0-0.1	SE103054A.002	LB008993	31 Oct 2011	03 Nov 2011	14 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP20 0-0.15	SE103054A.003	LB008993	31 Oct 2011	03 Nov 2011	14 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP44 0-0.1	SE103054A.011	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP45 0-0.1	SE103054A.012	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP46 0-0.1	SE103054A.013	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP47 0.5-0.8	SE103054A.015	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP48 0-0.1	SE103054A.016	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP49 0-0.15	SE103054A.017	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP50 0.3-0.6	SE103054A.019	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP51 0-0.15	SE103054A.020	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP52 0-0.15	SE103054A.021	LB008993	01 Nov 2011	03 Nov 2011	15 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP54 0-0.3	SE103054A.023	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP55 0-0.3	SE103054A.024	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP55 0.5-0.8	SE103054A.026	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP56 0-0.1	SE103054A.027	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP57 0-0.1	SE103054A.028	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
TP58 0-0.15	SE103054A.029	LB008993	02 Nov 2011	03 Nov 2011	16 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011
AST1 0.25-0.4	SE103054A.051	LB008993	31 Oct 2011	03 Nov 2011	14 Nov 2011	17 Nov 2011†	22 Nov 2011	18 Nov 2011

PAH (Polynuclear Aromatic Hydrocarbons) In Soil Method: ME-(AU)-[ENV]AN420

AST1 0.25-0.4	SE103054A.051	LB008859	31 Oct 2011	03 Nov 2011	14 Nov 2011	15 Nov 2011†	25 Dec 2011	21 Nov 2011
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN40/AN320

TP3 0-0.1	SE103054A.001	LB009078	31 Oct 2011	03 Nov 2011	28 Apr 2012	18 Nov 2011	28 Apr 2012	22 Nov 2011
TP17 0-0.1	SE103054A.002	LB009078	31 Oct 2011	03 Nov 2011	28 Apr 2012	18 Nov 2011	28 Apr 2012	22 Nov 2011
TP20 0-0.15	SE103054A.003	LB009078	31 Oct 2011	03 Nov 2011	28 Apr 2012	18 Nov 2011	28 Apr 2012	22 Nov 2011
TP44 0-0.1	SE103054A.011	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP45 0-0.1	SE103054A.012	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP46 0-0.1	SE103054A.013	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP47 0.5-0.8	SE103054A.015	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP48 0-0.1	SE103054A.016	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP49 0-0.15	SE103054A.017	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP50 0.3-0.6	SE103054A.019	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP51 0-0.15	SE103054A.020	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP52 0-0.15	SE103054A.021	LB009078	01 Nov 2011	03 Nov 2011	29 Apr 2012	18 Nov 2011	29 Apr 2012	22 Nov 2011
TP54 0-0.3	SE103054A.023	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011
TP55 0-0.3	SE103054A.024	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011
TP55 0.5-0.8	SE103054A.026	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011
TP56 0-0.1	SE103054A.027	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011
TP57 0-0.1	SE103054A.028	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011
TP58 0-0.15	SE103054A.029	LB009078	02 Nov 2011	03 Nov 2011	30 Apr 2012	18 Nov 2011	30 Apr 2012	22 Nov 2011

TPH (Total Petroleum Hydrocarbons - Si Gel) In Soil Method: ME-(AU)-[ENV]AN403

SP1	SE103054A.035	LB008856	02 Nov 2011	03 Nov 2011	16 Nov 2011	15 Nov 2011	25 Dec 2011	18 Nov 2011
AST1 0.25-0.4	SE103054A.051	LB008856	31 Oct 2011	03 Nov 2011	14 Nov 2011	15 Nov 2011†	25 Dec 2011	21 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403								
SP1	SE103054A.035	LB008856	02 Nov 2011	03 Nov 2011	16 Nov 2011	15 Nov 2011	25 Dec 2011	21 Nov 2011
AST1 0.25-0.4	SE103054A.051	LB008856	31 Oct 2011	03 Nov 2011	14 Nov 2011	15 Nov 2011†	25 Dec 2011	18 Nov 2011
VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434								
AST1 0.25-0.4	SE103054A.051	LB008851	31 Oct 2011	03 Nov 2011	14 Nov 2011	15 Nov 2011†	25 Dec 2011	21 Nov 2011
Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434								
AST1 0.25-0.4	SE103054A.051	LB008851	31 Oct 2011	03 Nov 2011	14 Nov 2011	15 Nov 2011†	25 Dec 2011	21 Nov 2011

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420					
2-fluorobiphenyl (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	76
d14-p-terphenyl (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	85
d5-nitrobenzene (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	76
VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434					
Bromofluorobenzene (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	101
d4-1,2-dichloroethane (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	100
d8-toluene (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	98
Dibromofluoromethane (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	98
Volatile Petroleum Hydrocarbons In Soil Method: ME-(AU)-[ENV]AN433/AN434					
Trifluorotoluene (Surrogate)	AST1 0.25-0.4	SE103054A.051	%	60 - 130%	68

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

LB008859.001

Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	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(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Total PAH	mg/kg	0.8	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	116
2-fluorobiphenyl (Surrogate)	%	-	109
d14-p-terphenyl (Surrogate)	%	-	123

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB009078.001

Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Zinc, Zn	mg/kg	0.5	<0.5

TPH (Total Petroleum Hydrocarbons - Si Gel) in Soil Method: ME-(AU)-[ENV]AN403

LB008856.001

TPH C10-C14 Silica Gel	mg/kg	20	<20
TPH C15-C28 Silica Gel	mg/kg	45	<45
TPH C29-C36 Silica Gel	mg/kg	45	<45

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008856.001

TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	<50

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008851.001

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	95
d4-1,2-dichloroethane (Surrogate)	%	-	90
d8-toluene (Surrogate)	%	-	106
Bromofluorobenzene (Surrogate)	%	-	98

Totals

Total BTEX*	mg/kg	-	0
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METHOD BLANKS

SE103054A R1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
Volatile Petroleum Hydrocarbons In Soil Method: ME-(AU)-[ENV]AN433/AN434 LB008851.001			
TRH C6-C9	mg/kg	20	<20
Surrogates			
Trifluorotoluene (Surrogate)	%	-	67

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103054A.003-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB009078.007

Cadmium, Cd	mg/kg	0.3	6.7	6.3	35	6
Zinc, Zn	mg/kg	0.5	1000	970	30	6

Sample Name		SE103054A.019-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Moisture Content Method: ME-(AU)-[ENV]AN234
 LB008993.011

% Moisture	%	0.5	15	15	33	0
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB009078.015

Arsenic, As	mg/kg	3	5	5	87	9
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Sample Name		SE103054A.029-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB009078.024

Arsenic, As	mg/kg	3	5	5	90	3
Zinc, Zn	mg/kg	0.5	51	54	31	5

Sample Name		SE103054A.051-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Moisture Content Method: ME-(AU)-[ENV]AN234
 LB008993.021

% Moisture	%	0.5	5.9	5.0	39	18
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Sample Name		SE103265.001-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
 LB008856.006

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0

Sample Name		SE103265.008-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434
 LB008851.014
 Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	200	0
Toluene	mg/kg	0.1	<0.1	<0.1	200	0
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
o-xylene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103265.008-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008851.014

Surrogates

Dibromofluoromethane (Surrogate)	%	-	101.0	102.0	50	1
d4-1,2-dichloroethane (Surrogate)	%	-	99.0	101.0	50	2
d8-toluene (Surrogate)	%	-	98.0	97.0	50	1
Bromofluorobenzene (Surrogate)	%	-	100.0	99.0	50	1

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
Total BTEX*	mg/kg	-	0	0	200	NA

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008851.014

TRH C6-C9	mg/kg	20	<20	<20	200	0
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Surrogates

Trifluorotoluene (Surrogate)	%	-	66.0	60	30	10
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Sample Name			SE103265.009-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008856.016

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0

Sample Name			SE103265.018-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

LB008859.013

Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103265.018-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Continued... PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

LB008859.013

Surrogates

d5-nitrobenzene (Surrogate)	%	-	90.0	82.0	30	9
2-fluorobiphenyl (Surrogate)	%	-	81.0	73.0	30	10
d14-p-terphenyl (Surrogate)	%	-	93.0	89.0	30	4

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008856.026

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008851.025

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	200	0
Toluene	mg/kg	0.1	<0.1	<0.1	200	0
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
o-xylene	mg/kg	0.1	<0.1	<0.1	200	0

Surrogates

Dibromofluoromethane (Surrogate)	%	-	101.0	101.0	50	0
d4-1,2-dichloroethane (Surrogate)	%	-	99.0	101.0	50	2
d8-toluene (Surrogate)	%	-	98.0	97.0	50	1
Bromofluorobenzene (Surrogate)	%	-	98.0	100.0	50	2

Totals

Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
Total BTEX*	mg/kg	-	0	0	200	NA

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008851.025

TRH C6-C9	mg/kg	20	<20	<20	200	0
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Surrogates

Trifluorotoluene (Surrogate)	%	-	130.0	123	30	6
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report.
Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008859.002

Naphthalene	mg/kg	0.1	3.4	4	60 - 140	101
Acenaphthylene	mg/kg	0.1	3.5	4	60 - 140	104
Acenaphthene	mg/kg	0.1	3.8	4	60 - 140	112
Phenanthrene	mg/kg	0.1	3.9	4	60 - 140	115
Anthracene	mg/kg	0.1	3.5	4	60 - 140	105
Fluoranthene	mg/kg	0.1	3.5	4	60 - 140	102
Pyrene	mg/kg	0.1	3.6	4	60 - 140	108
Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	112

Surrogates

d5-nitrobenzene (Surrogate)	%	-	109.0	100	60 - 140	109
2-fluorobiphenyl (Surrogate)	%	-	101.0	100	60 - 140	101
d14-p-terphenyl (Surrogate)	%	-	114.0	100	60 - 140	114

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
LB009078.002

Arsenic, As	mg/kg	3	49	50	80 - 120	98
Cadmium, Cd	mg/kg	0.3	51	50	80 - 120	101
Zinc, Zn	mg/kg	0.5	50	50	80 - 120	101

TPH (Total Petroleum Hydrocarbons - SI Gel) in Soil Method: ME-(AU)-[ENV]AN403
LB008856.002

TPH C10-C14 Silica Gel	mg/kg	20	41	40	70 - 130	103
TPH C15-C28 Silica Gel	mg/kg	45	<45	40	70 - 130	110
TPH C29-C36 Silica Gel	mg/kg	45	<45	40	70 - 130	105

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
LB008856.002

TRH C10-C14	mg/kg	20	42	40	60 - 140	105
TRH C15-C28	mg/kg	50	<50	40	60 - 140	103

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434
LB008851.002

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	2.7	3	60 - 140	119
Toluene	mg/kg	0.1	2.8	3	60 - 140	122
Ethylbenzene	mg/kg	0.1	2.7	3	60 - 140	121
m/p-xylene	mg/kg	0.2	5.4	5.9	60 - 140	120
o-xylene	mg/kg	0.1	2.7	2.9	60 - 140	119

Surrogates

Dibromofluoromethane (Surrogate)	%	-	94.0	100	60 - 140	94
d4-1,2-dichloroethane (Surrogate)	%	-	93.0	100	60 - 140	93
d8-toluene (Surrogate)	%	-	106.0	100	60 - 140	106
Bromofluorobenzene (Surrogate)	%	-	98.0	100	60 - 140	98

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434
LB008851.002

TRH C6-C9	mg/kg	20	22	24.4	60 - 140	94
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Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008859.005

Naphthalene	mg/kg	0.1	3.7	<0.1	4	110
Acenaphthylene	mg/kg	0.1	3.7	<0.1	4	109
Acenaphthene	mg/kg	0.1	4.2	<0.1	4	125
Fluorene	mg/kg	0.1	<0.1	<0.1	-	NA
Phenanthrene	mg/kg	0.1	3.8	<0.1	4	113
Anthracene	mg/kg	0.1	3.9	<0.1	4	117
Fluoranthene	mg/kg	0.1	3.8	<0.1	4	113
Pyrene	mg/kg	0.1	4.0	<0.1	4	117
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	NA
Chrysene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(a)pyrene	mg/kg	0.1	3.9	<0.1	4	115
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	NA
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	NA

Surrogates

d5-nitrobenzene (Surrogate)	%	-	79.0	82.0	100	79
2-fluorobiphenyl (Surrogate)	%	-	78.0	81.0	100	78
d14-p-terphenyl (Surrogate)	%	-	93.0	91.0	100	93

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
LB009078.004

Cadmium, Cd	mg/kg	0.3	45	0.9	50	88
Zinc, Zn	mg/kg	0.5	71	24	50	93

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
LB008856.009

TRH C10-C14	mg/kg	20	49	<20	40	118
TRH C15-C28	mg/kg	50	53	<50	40	113

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434
LB008851.004

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	1.8	<0.1	3	80
Toluene	mg/kg	0.1	1.8	<0.1	3	80
Ethylbenzene	mg/kg	0.1	1.9	<0.1	3	83
m/p-xylene	mg/kg	0.2	3.8	<0.2	5.9	83
o-xylene	mg/kg	0.1	1.8	<0.1	2.9	81

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	-	NA
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	101.0	98.0	100	101
d4-1,2-dichloroethane (Surrogate)	%	-	102.0	100.0	100	102
d8-toluene (Surrogate)	%	-	101.0	98.0	100	101
Bromofluorobenzene (Surrogate)	%	-	100.0	101.0	100	100

Totals

Total Xylenes*	mg/kg	0.3	5.6	<0.3	-	NA
Total BTEX*	mg/kg	-	11	0	-	NA

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434
LB008851.004

TRH C6-C9	mg/kg	20	21	<20	24.4	93
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Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %
Continued... Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434 LB008851.004 Surrogates						
Trifluorotoluene (Surrogate)	%	-	70	68	-	70

Matrix spike duplicates are calculated as relative percent difference using the formula $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$
 The original result is the analyte concentration of the matrix spike and the replicate result is the analyte concentration of the matrix spike duplicate.
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $\text{MaxAllowableDifference} = 100 \times \text{StatisticalDetectionLimit} / \text{Mean} + \text{LimitingRepeatability}$
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

No Matrix Spike Duplicates were required for this job.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	NATA Accreditation does not cover this analysis.	NA	The sample was not analysed for this analyte
^	Performed by outside laboratory.		
LOR	Limit of Reporting		

Samples analysed as received.
 Solid samples expressed on a dry weight basis.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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This test report shall not be reproduced, except in full.

CO received 14/11/11 @ 4:50 pm

COC 14/11/2011 @ 4:50 PM

SGS Ref: SE103054A
 Date Rec: 22/11/11
 TAT: NORMAL

GEOTECHNIQUE PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
 PENRITH NSW 2750

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 PENRITH NSW 2751

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

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TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 FAX: 02 8594 0499 ATTN: MS ANGELA MAMALICOS	Sampling By: AN Job No: 12576/1 Project: Project Manager: AB Location: Marsden Park Precinct
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Location	Depth (m)	Date	Time	Soil	Material	Results required by: Normal Turnaround Time									
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						ARSENIC	CADMIUM	ZINC					SGS REF:	KEEP SAMPLE
1	TP3	0-0.1	31/10/2011	-	SG		✓	✓					SE103054-	YES
2	TP17	0-0.1	31/10/2011	-	SG		✓	✓					SE103054-	YES
3	TP20	0-0.15	31/10/2011	-	SG		✓	✓					SE103054-	YES
	TP37	0-0.15	1/11/2011	-	SG								SE103054-	YES
	TP38	0-0.15	1/11/2011	-	SG								SE103054-	YES
	TP39	0-0.1	1/11/2011	-	SG								SE103054-	YES
	TP40	0-0.15	1/11/2011	-	SG								SE103054-	YES
	TP41	0-0.15	1/11/2011	-	SG								SE103054-	YES
	TP42	0-0.1	1/11/2011	-	SG								SE103054-	YES
	TP43	0-0.15	1/11/2011	-	SG								SE103054-	YES
11	TP44	0-0.1	1/11/2011	-	SG	✓							SE103054-	YES
12	TP45	0-0.1	1/11/2011	-	SG	✓							SE103054-	YES

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	AB	14/11/2011	<i>Angela M</i>	<i>[Signature]</i>	14/11/11

Legend:

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	

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TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 FAX: 02 8594 0499 ATTN: MS ANGELA MAMALICOS	Sampling By: AN Job No: 12576/1 Project: Project Manager: AB Location: Marsden Park Precinct
---	---

Sampling details				Sample type		Results required by: Normal Turnaround Time										
Location	Depth (m)	Date	Time	Soil	Material	ARSENIC	CADMIUM	ZINC							SGS REF:	KEEP SAMPLE
13 TP46	0-0.1	1/11/2011	-	SG		✓									SE103054-	YES
TP47	0-0.2	1/11/2011	-	SG/SP											SE103054-	YES
15 TP47	0.5-0.8	1/11/2011	-	SG		✓									SE103054-	YES
TP47	1.0-1.3	1/11/2011	-	SG											SE103054-	YES
16 TP48	0-0.1	1/11/2011	-	SG		✓									SE103054-	YES
17 TP49	0-0.15	1/11/2011	-	SG		✓									SE103054-	YES
TP50	0-0.15	1/11/2011	-	SG											SE103054-	YES
19 TP50	0.3-0.6	1/11/2011	-	SG		✓									SE103054-	YES
20 TP51	0-0.15	1/11/2011	-	SG		✓									SE103054-	YES
21 TP52	0-0.15	1/11/2011	-	SG		✓									SE103054-	YES
TP53	0-0.3	2/11/2011	-	SG/SP											SE103054-	YES
TP53	0.5-0.8	2/11/2011	-	SG/SP											SE103054-	YES

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	AB	14/11/2011	<i>Blairly G...</i>	<i>[Signature]</i>	14/11/2011

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	

Lemko Place
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TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 FAX: 02 8594 0499 ATTN: MS ANGELA MAMALICOS	Sampling By: AN Job No: 12576/1 Project: Project Manager: AB Location: Marsden Park Precinct
---	---

Sampling details				Sample type		Results required by: Normal Turnaround Time										
Location	Depth (m)	Date	Time	Soil	Material	ARSENIC	CADMIUM	ZINC							SGS REF:	KEEP SAMPLE
TP53	1.0-1.2	2/11/2011	-	SG											SE103054-	YES
TP53	1.25-1.4	2/11/2011	-	SG											SE103054-	YES
23 TP54	0-0.3	2/11/2011	-	SG/SP		✓		✓							SE103054-	YES
TP54	0.35-0.5	2/11/2011	-	SG											SE103054-	YES
24 TP55	0-0.3	2/11/2011	-	SG/SP		✓		✓							SE103054-	YES
TP55	0-0.3	2/11/2011	-		FCP										SE103054-	YES
26 TP55	0.5-0.8	2/11/2011	-	SG/SP		✓									SE103054-	YES
TP55	1.05-1.2	2/11/2011	-	SG											SE103054-	YES
27 TP56	0-0.1	2/11/2011	-	SG		✓									SE103054-	YES
28 TP57	0-0.1	2/11/2011	-	SG		✓									SE103054-	YES
29 TP58	0-0.15	2/11/2011	-	SG		✓		✓							SE103054-	YES
TP59	0-0.3	2/11/2011	-	SG/SP											SE103054-	YES
TP59	0.5-0.8	2/11/2011	-	SG/SP											SE103054-	YES

Relinquished by				Received by			
Name	Signature	Date		Name	Signature	Date	
ANWAR BARBUHUYIA	AB	14/11/2011		<i>Angela Mamalicos</i>	<i>[Signature]</i>	14/11/2011	

Legend:

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	

Lemko Place
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TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 FAX: 02 8594 0499 ATTN: MS ANGELA MAMALICOS	Sampling By: AN Job No: 12576/1 Project: Project Manager: AB Location: Marsden Park Precinct
---	---

Sampling details				Sample type		Results required by: Normal Turnaround Time									
Location	Depth (m)	Date	Time	Soil	Material	ARSENIC	CADMIUM	ZINC	TPH (C10-C40) with Silica Gel Clean-up	TPH* & BTEX	PAH			SGS REF:	KEEP SAMPLE
TP59	0.85-1.0	2/11/2011	-	SG										SE103054-	YES
AST1	0-0.2	31/10/2011	-	SG										SE103054-	YES
51 AST1	0.25-0.4	31/10/2011	-	SG						✓	✓			SE103054-	YES
AST1	0.7-0.8	31/10/2011	-	SG										SE103054-	YES
AST1	1.2-1.3	31/10/2011	-	SG										SE103054-	YES
UST1	0-0.3	31/10/2011	-	SG										SE103054-	YES
UST1	0.35-0.5	31/10/2011	-	SG										SE103054-	YES
UST1	0.9-1.0	31/10/2011	-	SG										SE103054-	YES
UST1	1.2-1.3	31/10/2011	-	SG										SE103054-	YES
SD4	0-0.1	1/11/2011	-	SG										SE103054-	YES
SD5	0-0.1	1/11/2011	-	SG										SE103054-	YES
35 SP1		2/11/2011	-	SG					✓					SE103054-	YES
SP1		2/11/2011	-		FCP									SE103054-	YES

Relinquished by				Received by			
Name	Signature	Date		Name	Signature	Date	
ANWAR BARBHUYIA	AB	14/11/2011		<i>Emily Tai</i>	<i>[Signature]</i>	14/11/2011	

Legend:

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	



SAMPLE RECEIPT ADVICE

SE103054A

CLIENT DETAILS

Contact Anwar Barbhuyia
Client Geotechnique
Address P.O. Box 880
PENRITH NSW 2751

Telephone 02 4722 2700
Facsimile 02 4722 6161
Email anwar.barbhuyia@geotech.com.au

Project **12576/1 - Marsden Park Precinct-Add**
Order Number (Not specified)
Samples 20

LABORATORY DETAILS

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Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

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Samples Received Thu 3/11/2011
Report Due Tue 22/11/2011
SGS Reference **SE103054A**

SUBMISSION DETAILS

This is to confirm that 20 samples were received on Thursday 3/11/2011. Results are expected to be ready by Tuesday 22/11/2011. Please quote SGS reference SE103054A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	20 Soils	Type of documentation received	Email
Date documentation received	14/11/11@4:50pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct-Add**

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	Total Recoverable Metals in Soil by ICPOES from
001	TP3 0-0.1	1	2
002	TP17 0-0.1	1	2
003	TP20 0-0.15	1	2
011	TP44 0-0.1	1	1
012	TP45 0-0.1	1	1
013	TP46 0-0.1	1	1
015	TP47 0.5-0.8	1	1
016	TP48 0-0.1	1	1
017	TP49 0-0.15	1	1
019	TP50 0.3-0.6	1	1
020	TP51 0-0.15	1	1
021	TP52 0-0.15	1	1
023	TP54 0-0.3	1	2
024	TP55 0-0.3	1	2

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct-Add**

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	Total Recoverable Metals in Soil by ICPOES from	TPH (Total Petroleum Hydrocarbons - Si Gel) in
035	SP1	-	-	4
026	TP55 0.5-0.8	1	1	-
027	TP56 0-0.1	1	1	-
028	TP57 0-0.1	1	1	-
029	TP58 0-0.15	1	2	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct-Add**

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	PAH (Polynuclear Aromatic Hydrocarbons) in	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
051	AST1 0.25-0.4	-	22	-	-	-
051	AST1 0.25-0.4	1	-	4	12	6

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Contact **Anwar Barbhuyia**
Geotechnique
Client Address **P.O. Box 880
NSW 2751**

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Facsimile **02 4722 6161**
Email **anwar.barbhuyia@geotech.com.au**

Project **12576/1 - Marsden Park Precinct**
Order Number **(Not specified)**
Samples **11**

LABORATORY DETAILS

Manager **Huong Crawford**
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SGS Reference **SE103066 R0**
Report Number **0000011584**
Date Reported **11 Nov 2011**
Date Received **04 Nov 2011**

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

SIGNATORIES



Andy Sutton
Organics Chemist



Dong Liang
Inorganics Metals Team Leader



Ly Kim Ha
Organics Supervisor

	Sample Number	SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name	TP60 0-0.1	TP61 0-0.15	TP62 0-0.1	TP63 0-0.1	TP64 0-0.3	

Parameter Units LOR

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Benzene	mg/kg	0.1	-	-	-	-	<0.1
Toluene	mg/kg	0.1	-	-	-	-	<0.1
Ethylbenzene	mg/kg	0.1	-	-	-	-	<0.1
m/p-xylene	mg/kg	0.2	-	-	-	-	<0.2
o-xylene	mg/kg	0.1	-	-	-	-	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	-	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	125
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	116
d8-toluene (Surrogate)	%	-	-	-	-	-	106
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	111

Totals

Total BTEX*	mg/kg	-	-	-	-	-	0
Total Xylenes*	mg/kg	0.3	-	-	-	-	<0.3

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	-	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	-	113
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	-	<20
TRH C15-C28	mg/kg	50	-	-	-	-	<50
TRH C29-C40	mg/kg	150	-	-	-	-	<150

Surrogates

TRH (Surrogate)	%	-	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-	-	<0.1
2-methylnaphthalene	mg/kg	0.1	-	-	-	-	<0.1
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	-	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	<0.1
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-	-	<0.1

Parameter	Units	LOR	SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Sample Number			SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name			TP60 0-0.1	TP61 0-0.15	TP62 0-0.1	TP63 0-0.1	TP64 0-0.3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-	<0.1
Total PAH	mg/kg	0.8	-	-	-	-	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-	-	-	-	99
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-	85
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-	103

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Sample Number			SE103066.001	SE103066.002	SE103066.003	SE103066.004	SE103066.005
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name			TP60 0-0.1	TP61 0-0.15	TP62 0-0.1	TP63 0-0.1	TP64 0-0.3

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	110	113	113	105	111
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1221	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1232	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1242	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1248	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1254	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1260	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1262	mg/kg	0.2	-	-	-	-	<0.2
Arochlor 1268	mg/kg	0.2	-	-	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	-	-	-	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	-	-	111
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	5	8	11	11	7
Cadmium, Cd	mg/kg	0.3	<0.3	0.4	0.5	0.5	0.4
Chromium, Cr	mg/kg	0.3	12	14	18	21	15
Copper, Cu	mg/kg	0.5	10	13	11	8.2	36
Lead, Pb	mg/kg	1	20	22	23	21	30
Nickel, Ni	mg/kg	0.5	7.2	6.5	6.5	5.7	10
Zinc, Zn	mg/kg	0.5	26	51	30	22	120

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
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Moisture Content Method: AN234

% Moisture	%	0.5	16	18	12	8.3	12
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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Parameter	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Sample Number			SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name			TP65 0-0.3	TP66 0-0.15	TP67 0-0.1	TP68 0-0.1	TP69 0-0.1

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	-	-
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	-	-	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	99	107	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	98	103	-	-	-
d8-toluene (Surrogate)	%	-	102	84	-	-	-
Bromofluorobenzene (Surrogate)	%	-	113	108	-	-	-

Totals

Total BTEX*	mg/kg	-	0	0	-	-	-
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	-	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	<20	<20	-	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	126	95	-	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	<20	-	-	-
TRH C15-C28	mg/kg	50	<50	<50	-	-	-
TRH C29-C40	mg/kg	150	<150	<150	-	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-	-
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-	-
1-methylnaphthalene	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	0.2	-	-	-
Pyrene	mg/kg	0.1	<0.1	0.2	-	-	-
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-	-
Chrysene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	0.1	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-	-
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-	-
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	-	-	-

Sample Number	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Sample Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name	TP65 0-0.3	TP66 0-0.15	TP67 0-0.1	TP68 0-0.1	TP69 0-0.1

Parameter Units LOR
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Parameter	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Total PAH	mg/kg	0.8	<0.8	<0.8	<0.8	-	-

Surrogates

Surrogate	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
d5-nitrobenzene (Surrogate)	%	-	103	101	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	92	89	-	-	-
d14-p-terphenyl (Surrogate)	%	-	109	103	-	-	-

OC Pesticides in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Sample Number			SE103066.006	SE103066.007	SE103066.008	SE103066.009	SE103066.010
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011	03 Nov 2011
Sample Name			TP65 0-0.3	TP66 0-0.15	TP67 0-0.1	TP68 0-0.1	TP69 0-0.1

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	109	105	107	111	106
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-	-
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-	-
Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-	-

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	109	105	-	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	11	6	17	14	12
Cadmium, Cd	mg/kg	0.3	0.4	0.4	0.9	0.5	0.7
Chromium, Cr	mg/kg	0.3	12	16	40	14	36
Copper, Cu	mg/kg	0.5	17	12	80	22	8.4
Lead, Pb	mg/kg	1	15	24	44	25	30
Nickel, Ni	mg/kg	0.5	5.4	6.0	11	9.0	3.7
Zinc, Zn	mg/kg	0.5	36	42	250	44	15

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	0.05	<0.05	<0.05
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Moisture Content Method: AN234

% Moisture	%	0.5	15	7.1	9.2	13	7.8
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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Sample Number SE103066.011
 Sample Matrix Water
 Sample Date 03 Nov 2011
 Sample Name Rinsate R6

Parameter	Units	LOR
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VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	-
Toluene	mg/kg	0.1	-
Ethylbenzene	mg/kg	0.1	-
m/p-xylene	mg/kg	0.2	-
o-xylene	mg/kg	0.1	-

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-

Totals

Total BTEX*	mg/kg	-	-
Total Xylenes*	mg/kg	0.3	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-
Dibromofluoromethane (Surrogate)	%	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-
d8-toluene (Surrogate)	%	-	-
Bromofluorobenzene (Surrogate)	%	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-
TRH C15-C28	mg/kg	50	-
TRH C29-C40	mg/kg	150	-

Surrogates

TRH (Surrogate)	%	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-
2-methylnaphthalene	mg/kg	0.1	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-
Benzo(k)fluoranthene	mg/kg	0.1	-
Benzo(a)pyrene	mg/kg	0.1	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-
Dibenzo(a&h)anthracene	mg/kg	0.1	-

Sample Number SE103066.011
 Sample Matrix Water
 Sample Date 03 Nov 2011
 Sample Name Rinsate R6

Parameter Units LOR

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Benzo(ghi)perylene	mg/kg	0.1	-
Total PAH	mg/kg	0.8	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-
2-fluorobiphenyl (Surrogate)	%	-	-
d14-p-terphenyl (Surrogate)	%	-	-

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	-
Alpha BHC	mg/kg	0.1	-
Lindane	mg/kg	0.1	-
Heptachlor	mg/kg	0.1	-
Aldrin	mg/kg	0.1	-
Beta BHC	mg/kg	0.1	-
Delta BHC	mg/kg	0.1	-
Heptachlor epoxide	mg/kg	0.1	-
o,p'-DDE	mg/kg	0.1	-
Alpha Endosulfan	mg/kg	0.2	-
Gamma Chlordane	mg/kg	0.1	-
Alpha Chlordane	mg/kg	0.1	-
trans-Nonachlor	mg/kg	0.1	-
p,p'-DDE	mg/kg	0.1	-
Dieldrin	mg/kg	0.05	-
Endrin	mg/kg	0.2	-
o,p'-DDD	mg/kg	0.1	-
o,p'-DDT	mg/kg	0.1	-
Beta Endosulfan	mg/kg	0.2	-
p,p'-DDD	mg/kg	0.1	-
p,p'-DDT	mg/kg	0.1	-
Endosulfan sulphate	mg/kg	0.1	-
Endrin Aldehyde	mg/kg	0.1	-
Methoxychlor	mg/kg	0.1	-
Endrin Ketone	mg/kg	0.1	-

Sample Number SE103066.011
 Sample Matrix Water
 Sample Date 03 Nov 2011
 Sample Name Rinsate R6

Parameter	Units	LOR
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OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	-
Arochlor 1221	mg/kg	0.2	-
Arochlor 1232	mg/kg	0.2	-
Arochlor 1242	mg/kg	0.2	-
Arochlor 1248	mg/kg	0.2	-
Arochlor 1254	mg/kg	0.2	-
Arochlor 1260	mg/kg	0.2	-
Arochlor 1262	mg/kg	0.2	-
Arochlor 1268	mg/kg	0.2	-
Total PCBs (Arochlors)	mg/kg	1	-

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	-
Cadmium, Cd	mg/kg	0.3	-
Chromium, Cr	mg/kg	0.3	-
Copper, Cu	mg/kg	0.5	-
Lead, Pb	mg/kg	1	-
Nickel, Ni	mg/kg	0.5	-
Zinc, Zn	mg/kg	0.5	-

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	-
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Moisture Content Method: AN234

% Moisture	%	0.5	-
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	<0.05
Cadmium, Cd	mg/L	0.005	<0.005
Chromium, Cr	mg/L	0.005	<0.005
Copper, Cu	mg/L	0.01	<0.01
Lead, Pb	mg/L	0.02	<0.02
Nickel, Ni	mg/L	0.01	<0.010
Zinc, Zn	mg/L	0.01	<0.01

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	<0.0001
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MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB008427	mg/L	0.0001	<0.0001	65%	98%	100%

Mercury in Soil Method: ME-(AU)-[ENV]AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB008323	mg/kg	0.05	<0.05	0%	97%	72%

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Arsenic, As	LB008557	mg/L	0.05	<0.05	94%
Cadmium, Cd	LB008557	mg/L	0.005	<0.005	96%
Chromium, Cr	LB008557	mg/L	0.005	<0.005	96%
Copper, Cu	LB008557	mg/L	0.01	<0.01	98%
Lead, Pb	LB008557	mg/L	0.02	<0.02	97%
Nickel, Ni	LB008557	mg/L	0.01	<0.010	96%
Zinc, Zn	LB008557	mg/L	0.01	<0.01	95%

Moisture Content Method: ME-(AU)-[ENV]AN234

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB008313	%	0.5	2 - 5%

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Hexachlorobenzene (HCB)	LB008372	mg/kg	0.1	<0.1	0%	NA
Alpha BHC	LB008372	mg/kg	0.1	<0.1	0%	NA
Lindane	LB008372	mg/kg	0.1	<0.1	0%	NA
Heptachlor	LB008372	mg/kg	0.1	<0.1	0%	118%
Aldrin	LB008372	mg/kg	0.1	<0.1	0%	121%
Beta BHC	LB008372	mg/kg	0.1	<0.1	0%	NA
Delta BHC	LB008372	mg/kg	0.1	<0.1	0%	113%
Heptachlor epoxide	LB008372	mg/kg	0.1	<0.1	0%	NA
o,p'-DDE	LB008372	mg/kg	0.1	<0.1	0%	NA
Alpha Endosulfan	LB008372	mg/kg	0.2	<0.2	0%	NA
Gamma Chlordane	LB008372	mg/kg	0.1	<0.1	0%	NA
Alpha Chlordane	LB008372	mg/kg	0.1	<0.1	0%	NA
trans-Nonachlor	LB008372	mg/kg	0.1	<0.1	0%	NA
p,p'-DDE	LB008372	mg/kg	0.1	<0.1	0%	NA
Dieldrin	LB008372	mg/kg	0.05	<0.05	0%	114%
Endrin	LB008372	mg/kg	0.2	<0.2	0%	120%
o,p'-DDD	LB008372	mg/kg	0.1	<0.1	0%	NA
o,p'-DDT	LB008372	mg/kg	0.1	<0.1	0%	NA
Beta Endosulfan	LB008372	mg/kg	0.2	<0.2	0%	NA
p,p'-DDD	LB008372	mg/kg	0.1	<0.1	0%	NA
p,p'-DDT	LB008372	mg/kg	0.1	<0.1	0%	108%
Endosulfan sulphate	LB008372	mg/kg	0.1	<0.1	0%	NA
Endrin Aldehyde	LB008372	mg/kg	0.1	<0.1	0%	NA
Methoxychlor	LB008372	mg/kg	0.1	<0.1	0%	NA
Endrin Ketone	LB008372	mg/kg	0.1	<0.1	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008372	%	-	93%	0 - 5%	101%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB008373	mg/kg	0.1	<0.1	0%	106%	114%
2-methylnaphthalene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
1-methylnaphthalene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Acenaphthylene	LB008373	mg/kg	0.1	<0.1	0%	101%	114%
Acenaphthene	LB008373	mg/kg	0.1	<0.1	0%	120%	129%
Fluorene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Phenanthrene	LB008373	mg/kg	0.1	<0.1	0%	107%	115%
Anthracene	LB008373	mg/kg	0.1	<0.1	0%	110%	117%
Fluoranthene	LB008373	mg/kg	0.1	<0.1	0%	107%	115%
Pyrene	LB008373	mg/kg	0.1	<0.1	0%	112%	118%
Benzo(a)anthracene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Chrysene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(b)fluoranthene	LB008373	mg/kg	0.1	<0.1	0 - 7%	NA	NA
Benzo(k)fluoranthene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(a)pyrene	LB008373	mg/kg	0.1	<0.1	0%	112%	115%
Indeno(1,2,3-cd)pyrene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Dibenzo(a&h)anthracene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB008373	mg/kg	0.1	<0.1	0%	NA	NA
Total PAH	LB008373	mg/kg	0.8	<0.8	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB008373	%	-	124%	1 - 3%	116%	109%
2-fluorobiphenyl (Surrogate)	LB008373	%	-	104%	3 - 4%	105%	103%
d14-p-terphenyl (Surrogate)	LB008373	%	-	114%	0%	115%	112%

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arochlor 1016	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1221	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1232	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1242	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1248	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1254	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1260	LB008372	mg/kg	0.2	<0.2	0%	74%
Arochlor 1262	LB008372	mg/kg	0.2	<0.2	0%	NA
Arochlor 1268	LB008372	mg/kg	0.2	<0.2	0%	NA
Total PCBs (Arochlors)	LB008372	mg/kg	1	<1	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008372	%	-	93%	0%	107%

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB008318	mg/kg	3	<3	1 - 10%	104%	79%
Cadmium, Cd	LB008318	mg/kg	0.3	<0.3	1 - 20%	106%	82%
Chromium, Cr	LB008318	mg/kg	0.3	<0.3	1 - 7%	103%	75%
Copper, Cu	LB008318	mg/kg	0.5	<0.5	3 - 4%	101%	79%
Lead, Pb	LB008318	mg/kg	1	<1	5 - 19%	105%	72%
Nickel, Ni	LB008318	mg/kg	0.5	<0.5	1 - 20%	107%	81%
Zinc, Zn	LB008318	mg/kg	0.5	<0.5	4 - 5%	103%	81%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB008370	mg/kg	20	<20	0%	118%	115%
TRH C15-C28	LB008370	mg/kg	50	<50	0%	118%	100%
TRH C29-C40	LB008370	mg/kg	150	<150	0%	NA	NA

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB008375	mg/kg	0.1	<0.1	0%	133%	206%
Toluene	LB008375	mg/kg	0.1	<0.1	0%	109%	145%
Ethylbenzene	LB008375	mg/kg	0.1	<0.1	0%	132%	NVL
m/p-xylene	LB008375	mg/kg	0.2	<0.2	0%	134%	-46%
o-xylene	LB008375	mg/kg	0.1	<0.1	0%	135%	-115%

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
MtBE (Methyl-tert-butyl ether)	LB008375	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB008375	%	-	118%	0 - 13%	111%	137%
d4-1,2-dichloroethane (Surrogate)	LB008375	%	-	118%	2 - 11%	111%	131%
d8-toluene (Surrogate)	LB008375	%	-	101%	2%	90%	104%
Bromofluorobenzene (Surrogate)	LB008375	%	-	106%	0 - 1%	107%	103%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX*	LB008375	mg/kg	-	0	NA	NA	NVL
Total Xylenes*	LB008375	mg/kg	0.3	<0.3	0%	NA	NVL

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C9	LB008375	mg/kg	20	<20	0%	124%	-274%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Trifluorotoluene (Surrogate)	LB008375	%	-	79%	3 - 4%	123%	NVL

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

METHOD

METHODOLOGY SUMMARY

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433/AN434

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	This analysis is not covered by the scope of accreditation.	-	The sample was not analysed for this analyte
^	Performed by outside laboratory.	NVL	Not Validated
LOR	Limit of Reporting		
↑↓	Raised or Lowered Limit of Reporting		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
<http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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 Order Number (Not specified)
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SGS Reference SE103066 R0
 Report Number 0000011587
 Date Reported 11 Nov 2011

COMMENTS

All the laboratory data for each environmental matrix was compared to the SGS Environmental Services' stated data quality objectives (DQO).

Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the chain of custody document and was supplied by the client.

This QA/QC statement must be read in conjunction with the referenced analytical report.

The statement and the analytical report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

MS	VOC's in Soil	4 Items
	Volatile Petroleum Hydrocarbons in Soil	1 Item

SAMPLE SUMMARY

Sample counts by matrix	10 Soil, 1 Water	Type of documentation received	COC
Date documentation received	4/11/2011	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
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Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Rinsate R6	SE103066.011	LB008427	03 Nov 2011	04 Nov 2011	01 Dec 2011	09 Nov 2011	01 Dec 2011	09 Nov 2011
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Mercury in Soil Method: ME-(AU)-[ENV]AN312

TP60 0-0.1	SE103066.001	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP61 0-0.15	SE103066.002	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP62 0-0.1	SE103066.003	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP63 0-0.1	SE103066.004	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP64 0-0.3	SE103066.005	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP65 0-0.3	SE103066.006	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP66 0-0.15	SE103066.007	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP67 0-0.1	SE103066.008	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP68 0-0.1	SE103066.009	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011
TP69 0-0.1	SE103066.010	LB008323	03 Nov 2011	04 Nov 2011	01 Dec 2011	08 Nov 2011	01 Dec 2011	08 Nov 2011

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Rinsate R6	SE103066.011	LB008557	03 Nov 2011	04 Nov 2011	01 May 2012	10 Nov 2011	01 May 2012	10 Nov 2011
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Moisture Content Method: ME-(AU)-[ENV]AN234

TP60 0-0.1	SE103066.001	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP61 0-0.15	SE103066.002	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP62 0-0.1	SE103066.003	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP63 0-0.1	SE103066.004	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP64 0-0.3	SE103066.005	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP65 0-0.3	SE103066.006	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP66 0-0.15	SE103066.007	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP67 0-0.1	SE103066.008	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP68 0-0.1	SE103066.009	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011
TP69 0-0.1	SE103066.010	LB008313	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	13 Nov 2011	08 Nov 2011

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

TP60 0-0.1	SE103066.001	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP61 0-0.15	SE103066.002	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP62 0-0.1	SE103066.003	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP63 0-0.1	SE103066.004	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP64 0-0.3	SE103066.005	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP65 0-0.3	SE103066.006	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP66 0-0.15	SE103066.007	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP67 0-0.1	SE103066.008	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP68 0-0.1	SE103066.009	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP69 0-0.1	SE103066.010	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

TP64 0-0.3	SE103066.005	LB008373	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP65 0-0.3	SE103066.006	LB008373	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP66 0-0.15	SE103066.007	LB008373	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

TP60 0-0.1	SE103066.001	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP61 0-0.15	SE103066.002	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP62 0-0.1	SE103066.003	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP63 0-0.1	SE103066.004	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP64 0-0.3	SE103066.005	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP65 0-0.3	SE103066.006	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP66 0-0.15	SE103066.007	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	08 Nov 2011
TP67 0-0.1	SE103066.008	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP68 0-0.1	SE103066.009	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011
TP69 0-0.1	SE103066.010	LB008372	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	11 Nov 2011

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

TP60 0-0.1	SE103066.001	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP61 0-0.15	SE103066.002	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP62 0-0.1	SE103066.003	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP63 0-0.1	SE103066.004	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP64 0-0.3	SE103066.005	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP65 0-0.3	SE103066.006	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP66 0-0.15	SE103066.007	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP67 0-0.1	SE103066.008	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP68 0-0.1	SE103066.009	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011
TP69 0-0.1	SE103066.010	LB008318	03 Nov 2011	04 Nov 2011	01 May 2012	08 Nov 2011	01 May 2012	10 Nov 2011

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

TP60 0-0.1	SE103066.001	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP61 0-0.15	SE103066.002	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP62 0-0.1	SE103066.003	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP63 0-0.1	SE103066.004	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP64 0-0.3	SE103066.005	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP65 0-0.3	SE103066.006	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP66 0-0.15	SE103066.007	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP67 0-0.1	SE103066.008	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP68 0-0.1	SE103066.009	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP69 0-0.1	SE103066.010	LB008370	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

TP64 0-0.3	SE103066.005	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP65 0-0.3	SE103066.006	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP66 0-0.15	SE103066.007	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-ENVJAN433/AN434								
TP64 0-0.3	SE103066.005	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP65 0-0.3	SE103066.006	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP66 0-0.15	SE103066.007	LB008375	03 Nov 2011	04 Nov 2011	17 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
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OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Tetrachloro-m-xylene (TCMX) (Surrogate)	TP60 0-0.1	SE103066.001	%	60 - 130%	110
	TP61 0-0.15	SE103066.002	%	60 - 130%	113
	TP62 0-0.1	SE103066.003	%	60 - 130%	113
	TP63 0-0.1	SE103066.004	%	60 - 130%	105
	TP64 0-0.3	SE103066.005	%	60 - 130%	111
	TP65 0-0.3	SE103066.006	%	60 - 130%	109
	TP66 0-0.15	SE103066.007	%	60 - 130%	105
	TP67 0-0.1	SE103066.008	%	60 - 130%	107
	TP68 0-0.1	SE103066.009	%	60 - 130%	111
	TP69 0-0.1	SE103066.010	%	60 - 130%	106

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

2-fluorobiphenyl (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	85
	TP65 0-0.3	SE103066.006	%	60 - 130%	92
	TP66 0-0.15	SE103066.007	%	60 - 130%	89
d14-p-terphenyl (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	103
	TP65 0-0.3	SE103066.006	%	60 - 130%	109
	TP66 0-0.15	SE103066.007	%	60 - 130%	103
d5-nitrobenzene (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	99
	TP65 0-0.3	SE103066.006	%	60 - 130%	103
	TP66 0-0.15	SE103066.007	%	60 - 130%	101

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Tetrachloro-m-xylene (TCMX) (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	111
	TP65 0-0.3	SE103066.006	%	60 - 130%	109
	TP66 0-0.15	SE103066.007	%	60 - 130%	105

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Bromofluorobenzene (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	111
	TP65 0-0.3	SE103066.006	%	60 - 130%	113
	TP66 0-0.15	SE103066.007	%	60 - 130%	108
d4-1,2-dichloroethane (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	116
	TP65 0-0.3	SE103066.006	%	60 - 130%	98
	TP66 0-0.15	SE103066.007	%	60 - 130%	103
d8-toluene (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	106
	TP65 0-0.3	SE103066.006	%	60 - 130%	102
	TP66 0-0.15	SE103066.007	%	60 - 130%	84
Dibromofluoromethane (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	125
	TP65 0-0.3	SE103066.006	%	60 - 130%	99
	TP66 0-0.15	SE103066.007	%	60 - 130%	107

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Trifluorotoluene (Surrogate)	TP64 0-0.3	SE103066.005	%	60 - 130%	113
	TP65 0-0.3	SE103066.006	%	60 - 130%	126
	TP66 0-0.15	SE103066.007	%	60 - 130%	95

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
LB008427.001

Mercury	mg/L	0.0001	<0.0001
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Mercury in Soil Method: ME-(AU)-[ENV]AN312
LB008323.001

Mercury	mg/kg	0.05	<0.05
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Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321
LB008557.001

Arsenic, As	mg/L	0.05	<0.05
Cadmium, Cd	mg/L	0.005	<0.005
Chromium, Cr	mg/L	0.005	<0.005
Copper, Cu	mg/L	0.01	<0.01
Lead, Pb	mg/L	0.02	<0.02
Nickel, Ni	mg/L	0.01	<0.010
Zinc, Zn	mg/L	0.01	<0.01

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008372.001

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.05	<0.05
Endrin	mg/kg	0.2	<0.2
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008373.001

Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	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

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Continued... PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

LB008373.001

Chrysene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Total PAH	mg/kg	0.8	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	124
2-fluorobiphenyl (Surrogate)	%	-	104
d14-p-terphenyl (Surrogate)	%	-	114

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

LB008372.001

Arochlor 1016	mg/kg	0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB008318.001

Arsenic, As	mg/kg	3	<3
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.3	<0.3
Copper, Cu	mg/kg	0.5	<0.5
Lead, Pb	mg/kg	1	<1
Nickel, Ni	mg/kg	0.5	<0.5
Zinc, Zn	mg/kg	0.5	<0.5

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008370.001

TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	50	<50

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.001

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, which is typically 2.5 times the statistically determined method detection limit (MDL).
 Result is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control LOR	BLK MB
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Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.001

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	118
d4-1,2-dichloroethane (Surrogate)	%	-	118
d8-toluene (Surrogate)	%	-	101
Bromofluorobenzene (Surrogate)	%	-	106

Totals

Total BTEX*	mg/kg	-	0
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Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.001

TRH C6-C9	mg/kg	20	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	79
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Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE102935.002-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008372.004

Hexachlorobenzene (HCB)	mg/kg	0.1	0	<0.1	200	0
Alpha BHC	mg/kg	0.1	0	<0.1	200	0
Lindane	mg/kg	0.1	0	<0.1	200	0
Heptachlor	mg/kg	0.1	0	<0.1	200	0
Aldrin	mg/kg	0.1	0	<0.1	200	0
Beta BHC	mg/kg	0.1	0	<0.1	200	0
Delta BHC	mg/kg	0.1	0	<0.1	200	0
Heptachlor epoxide	mg/kg	0.1	0	<0.1	200	0
o,p'-DDE	mg/kg	0.1	0	<0.1	200	0
Alpha Endosulfan	mg/kg	0.2	0	<0.2	200	0
Gamma Chlordane	mg/kg	0.1	0	<0.1	200	0
Alpha Chlordane	mg/kg	0.1	0	<0.1	200	0
trans-Nonachlor	mg/kg	0.1	0	<0.1	200	0
p,p'-DDE	mg/kg	0.1	0	<0.1	200	0
Dieldrin	mg/kg	0.05	0	<0.05	200	0
Endrin	mg/kg	0.2	0	<0.2	200	0
o,p'-DDD	mg/kg	0.1	0	<0.1	200	0
o,p'-DDT	mg/kg	0.1	0	<0.1	200	0
Beta Endosulfan	mg/kg	0.2	0	<0.2	200	0
p,p'-DDD	mg/kg	0.1	0	<0.1	200	0
p,p'-DDT	mg/kg	0.1	0	<0.1	200	0
Endosulfan sulphate	mg/kg	0.1	0	<0.1	200	0
Endrin Aldehyde	mg/kg	0.1	0	<0.1	200	0
Methoxychlor	mg/kg	0.1	0	<0.1	200	0
Endrin Ketone	mg/kg	0.1	0	<0.1	200	0

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	93	30	0
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PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008372.004

Arochlor 1016	mg/kg	0.2	0	<0.2	200	0
Arochlor 1221	mg/kg	0.2	0	<0.2	200	0
Arochlor 1232	mg/kg	0.2	0	<0.2	200	0
Arochlor 1242	mg/kg	0.2	0	<0.2	200	0
Arochlor 1248	mg/kg	0.2	0	<0.2	200	0
Arochlor 1254	mg/kg	0.2	0	<0.2	200	0
Arochlor 1260	mg/kg	0.2	0	<0.2	200	0
Arochlor 1262	mg/kg	0.2	0	<0.2	200	0
Arochlor 1268	mg/kg	0.2	0	<0.2	200	0
Total PCBs (Arochlors)	mg/kg	1	0	<1	200	0

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93	93	30	0
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Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103066.001-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
 LB008372.007

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
Lindane	mg/kg	0.1	<0.1	<0.1	200	0
Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
Dieldrin	mg/kg	0.05	<0.05	<0.05	200	0
Endrin	mg/kg	0.2	<0.2	<0.2	200	0
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	110	110	30	5
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Sample Name			SE103066.005-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
 LB008373.007

Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103066.005-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Continued... PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
 LB008373.007

Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
Total PAH	mg/kg	0.8	<0.8	<0.8	200	0

Surrogates

d5-nitrobenzene (Surrogate)	%	-	99.0	100.0	30	1
2-fluorobiphenyl (Surrogate)	%	-	85.0	88.0	30	3
d14-p-terphenyl (Surrogate)	%	-	103.0	103.0	30	0

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403
 LB008370.010

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0
TRH C29-C40	mg/kg	150	<150	<150	200	0

Sample Name		SE103066.008-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB008318.014

Arsenic, As	mg/kg	3	17	17	48	1
Cadmium, Cd	mg/kg	0.3	0.9	0.9	62	1
Chromium, Cr	mg/kg	0.3	40	40	31	1
Copper, Cu	mg/kg	0.5	80	82	31	3
Lead, Pb	mg/kg	1	44	36	33	19
Nickel, Ni	mg/kg	0.5	11	13	34	20
Zinc, Zn	mg/kg	0.5	250	260	30	5

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103066.009-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury in Soil Method: ME-(AU)-[ENV]AN312
 LB008323.014

Mercury	mg/kg	0.05	<0.05	<0.05	200	0
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Sample Name			SE103066.010-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury in Soil Method: ME-(AU)-[ENV]AN312
 LB008323.016

Mercury	mg/kg	0.05	<0.05	<0.05	200	0
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Molsture Content Method: ME-(AU)-[ENV]AN234
 LB008313.011

% Moisture	%	0.5	7.8	7.6	36	2
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320
 LB008318.017

Arsenic, As	mg/kg	3	12	14	53	10
Cadmium, Cd	mg/kg	0.3	0.7	0.8	70	20
Chromium, Cr	mg/kg	0.3	36	38	31	7
Copper, Cu	mg/kg	0.5	8.4	8.1	36	4
Lead, Pb	mg/kg	1	30	32	33	5
Nickel, Ni	mg/kg	0.5	3.7	3.7	44	1
Zinc, Zn	mg/kg	0.5	15	16	33	4

Sample Name			SE103066.011-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Mercury (dissolved) In Water Method: ME-(AU)-[ENV]AN311/AN312
 LB008427.009

Mercury	µg/L	0.0001	<0.0001	<0.0001	86	65
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Sample Name			SE103077.001-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Molsture Content Method: ME-(AU)-[ENV]AN234
 LB008313.013

% Moisture	%	0.5	8.8	8.4	36	5
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Sample Name			SE103079.006-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434
 LB008375.015
 Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	0	<0.1	200	0
Toluene	mg/kg	0.1	0	<0.1	200	0
Ethylbenzene	mg/kg	0.1	0	<0.1	200	0
m/p-xylene	mg/kg	0.2	0	<0.2	200	0
o-xylene	mg/kg	0.1	0	<0.1	200	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name			SE103079.006-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.015

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	0	<0.1	200	0
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	100	114.0	50	13
d4-1,2-dichloroethane (Surrogate)	%	-	109	111.0	50	2
d8-toluene (Surrogate)	%	-	83	85.0	50	2
Bromofluorobenzene (Surrogate)	%	-	107	106.0	50	1

Totals

Total BTEX*	mg/kg	-	0	0	200	NA
Total Xylenes*	mg/kg	0.3	0	<0.3	200	0

Volatle Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.015

TRH C6-C9	mg/kg	20	0	<20	200	0
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Surrogates

Trifluorotoluene (Surrogate)	%	-	77	79	30	3
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Sample Name			SE103084.001-DUP			
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

PAH (Polynuclear Aromatic Hydrocarbons) In Soil Method: ME-(AU)-[ENV]AN420

LB008373.022

Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
Phenanthrene	mg/kg	0.1	0.1	0.1	113	0
Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Fluoranthene	mg/kg	0.1	0.3	0.3	60	0
Pyrene	mg/kg	0.1	0.3	0.3	62	0
Benzo(a)anthracene	mg/kg	0.1	0.1	0.1	107	0
Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(b)fluoranthene	mg/kg	0.1	0.1	0.1	104	7
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
Total PAH	mg/kg	0.8	0.9	0.9	120	0

Surrogates

d5-nitrobenzene (Surrogate)	%	-	96.0	93.0	30	3
2-fluorobiphenyl (Surrogate)	%	-	93.0	89.0	30	4
d14-p-terphenyl (Surrogate)	%	-	99.0	99.0	30	0

Duplicates are calculated as relative percent difference (RPD) using the formula $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$
 The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times StatisticalDetectionLimit / Mean + LimitingRepeatability$
 Where the MaxAllowableDifference evaluates to a number larger than 200 it is displayed as 200.
 RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Sample Name		SE103084.001-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-JENVJAN403
 LB008370.021

TRH C10-C14	mg/kg	20	<20	<20	200	0
TRH C15-C28	mg/kg	50	<50	<50	200	0

Sample Name		SE103084.002-DUP				
Parameter	Units	LOR	Original Result	Duplicate Result	Criteria %	RPD %

VOC's in Soil Method: ME-(AU)-JENVJAN433/AN434

LB008375.021
 Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	<0.1	200	0
Toluene	mg/kg	0.1	<0.1	<0.1	200	0
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
o-xylene	mg/kg	0.1	<0.1	<0.1	200	0

Oxygenated Compounds

MIBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	200	0
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	121.0	121.0	50	0
d4-1,2-dichloroethane (Surrogate)	%	-	109.0	122.0	50	11
d8-toluene (Surrogate)	%	-	101.0	103.0	50	2
Bromofluorobenzene (Surrogate)	%	-	106.0	106.0	50	0

Totals

Total BTEX*	mg/kg	-	0	0	200	NA
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-JENVJAN433/AN434

LB008375.021

TRH C6-C9	mg/kg	20	<20	<20	200	0
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Surrogates

Trifluorotoluene (Surrogate)	%	-	111	107	30	4
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report.

Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312
LB008427.002

Mercury	mg/L	0.0001	0.0079	0.008	80 - 120	98
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Mercury in Soil Method: ME-(AU)-[ENV]AN312
LB008323.002

Mercury	mg/kg	0.05	0.19	0.2	70 - 130	97
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Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321
LB008557.002

Arsenic, As	mg/L	0.05	1.9	2	80 - 120	94
Cadmium, Cd	mg/L	0.005	1.9	2	80 - 120	96
Chromium, Cr	mg/L	0.005	1.9	2	80 - 120	96
Copper, Cu	mg/L	0.01	2.0	2	80 - 120	98
Lead, Pb	mg/L	0.02	1.9	2	80 - 120	97
Nickel, Ni	mg/L	0.01	1.9	2	80 - 120	96
Zinc, Zn	mg/L	0.01	1.9	2	80 - 120	95

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008372.002

Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	118
Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	121
Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	113
Dieldrin	mg/kg	0.05	0.23	0.2	60 - 140	114
Endrin	mg/kg	0.2	0.2	0.2	60 - 140	120
p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	108

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	100	100	60 - 140	101
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420
LB008373.002

Naphthalene	mg/kg	0.1	3.6	3.37	60 - 140	106
Acenaphthylene	mg/kg	0.1	3.4	3.37	60 - 140	101
Acenaphthene	mg/kg	0.1	4.0	3.37	60 - 140	120
Phenanthrene	mg/kg	0.1	3.6	3.37	60 - 140	107
Anthracene	mg/kg	0.1	3.7	3.37	60 - 140	110
Fluoranthene	mg/kg	0.1	3.6	3.37	60 - 140	107
Pyrene	mg/kg	0.1	3.8	3.37	60 - 140	112
Benzo(a)pyrene	mg/kg	0.1	3.8	3.37	60 - 140	112

Surrogates

d5-nitrobenzene (Surrogate)	%	-	116.0	100	60 - 140	116
2-fluorobiphenyl (Surrogate)	%	-	105.0	100	60 - 140	105
d14-p-terphenyl (Surrogate)	%	-	115.0	100	60 - 140	115

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420
LB008372.002

Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	74
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Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	110	100	60 - 140	107
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report.

Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Control		LCS STD			
	Units	LOR	Result	Expected Result	Criteria %	Recovery %

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

LB008318.002

Arsenic, As	mg/kg	3	52	50	80 - 120	104
Cadmium, Cd	mg/kg	0.3	53	50	80 - 120	106
Chromium, Cr	mg/kg	0.3	52	50	80 - 120	103
Copper, Cu	mg/kg	0.5	50	50	80 - 120	101
Lead, Pb	mg/kg	1	53	50	80 - 120	105
Nickel, Ni	mg/kg	0.5	53	50	80 - 120	107
Zinc, Zn	mg/kg	0.5	51	50	80 - 120	103

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

LB008370.002

TRH C10-C14	mg/kg	20	47	40	60 - 140	118
TRH C15-C28	mg/kg	50	<50	40	60 - 140	118

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.002

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	3.0	2.27	60 - 140	133
Toluene	mg/kg	0.1	2.5	2.27	60 - 140	109
Ethylbenzene	mg/kg	0.1	3.0	2.27	60 - 140	132
m/p-xylene	mg/kg	0.2	6.1	4.54	60 - 140	134
o-xylene	mg/kg	0.1	3.1	2.27	60 - 140	135

Surrogates

Dibromofluoromethane (Surrogate)	%	-	111.0	100	60 - 140	111
d4-1,2-dichloroethane (Surrogate)	%	-	111.0	100	60 - 140	111
d8-toluene (Surrogate)	%	-	90.0	100	60 - 140	90
Bromofluorobenzene (Surrogate)	%	-	107.0	100	60 - 140	107

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.002

TRH C6-C9	mg/kg	20	29	23	60 - 140	124
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Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %
Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312						
LB008427.004						
Mercury	mg/L	0.0001	0.0081	<0.0001	0.008	100
Mercury in Soil Method: ME-(AU)-[ENV]AN312						
LB008323.004						
Mercury	mg/kg	0.05	0.18	<0.05	0.2	72
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420						
LB008373.010						
Naphthalene	mg/kg	0.1	3.8	<0.1	3.37	114
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	NA
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	NA
Acenaphthylene	mg/kg	0.1	3.8	<0.1	3.37	114
Acenaphthene	mg/kg	0.1	4.3	<0.1	3.37	129
Fluorene	mg/kg	0.1	<0.1	<0.1	-	NA
Phenanthrene	mg/kg	0.1	3.9	<0.1	3.37	115
Anthracene	mg/kg	0.1	3.9	<0.1	3.37	117
Fluoranthene	mg/kg	0.1	4.0	0.2	3.37	115
Pyrene	mg/kg	0.1	4.1	0.2	3.37	118
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	NA
Chrysene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(b)fluoranthene	mg/kg	0.1	<0.1	0.1	-	NA
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(a)pyrene	mg/kg	0.1	3.9	<0.1	3.37	115
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	NA
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	<0.1	-	NA
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	NA
Total PAH	mg/kg	0.8	32	<0.8	-	NA
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	109.0	101.0	100	109
2-fluorobiphenyl (Surrogate)	%	-	103.0	89.0	100	103
d14-p-terphenyl (Surrogate)	%	-	112.0	103.0	100	112
Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320						
LB008318.004						
Arsenic, As	mg/kg	3	50	11	50	79
Cadmium, Cd	mg/kg	0.3	41	0.4	50	82
Chromium, Cr	mg/kg	0.3	56	18	50	75
Copper, Cu	mg/kg	0.5	54	14	50	79
Lead, Pb	mg/kg	1	60	24	50	72
Nickel, Ni	mg/kg	0.5	48	7.2	50	81
Zinc, Zn	mg/kg	0.5	80	40	50	81
TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403						
LB008370.012						
TRH C10-C14	mg/kg	20	46	<20	40	115
TRH C15-C28	mg/kg	50	<50	<50	40	100
TRH C29-C40	mg/kg	150	<150	<150	-	NA
VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434						
LB008375.004						
Monocyclic Aromatic Hydrocarbons						
Benzene	mg/kg	0.1	4.7	0	2.27	206†
Toluene	mg/kg	0.1	6.4	3.14	2.27	145†
Ethylbenzene	mg/kg	0.1	NVL	NVL	NVL	NVL
m/p-xylene	mg/kg	0.2	25	26.9	4.54	-46†
o-xylene	mg/kg	0.1	15	17.6	2.27	-115†

Matrix spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of the report. Recovery is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

Parameter	Units	Control		MS		
		LOR	Result	Original Result	Spike Added	Recovery %

Continued... VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.004

Oxygenated Compounds

MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	0	-	NA
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	137.0	105	100	137
d4-1,2-dichloroethane (Surrogate)	%	-	131.0	104	100	131
d8-toluene (Surrogate)	%	-	104.0	82	100	104
Bromofluorobenzene (Surrogate)	%	-	103.0	103	100	103

Totals

Total BTEX*	mg/kg	-	NVL	NVL	NVL	NVL
Total Xylenes*	mg/kg	0.3	NVL	NVL	NVL	NVL

Recovery failed acceptance criteria due to matrix interference.

Volatile Petroleum Hydrocarbons In Soil Method: ME-(AU)-[ENV]AN433/AN434

LB008375.004

TRH C6-C9	mg/kg	20	250	312	23	-274†
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Surrogates

Trifluorotoluene (Surrogate)	%	-	NVL	NVL	NVL	NVL
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Matrix spike duplicates are calculated as relative percent difference using the formula $RPD = \frac{|OriginalResult - ReplicateResult|}{Mean} \times 100$

The original result is the analyte concentration of the matrix spike and the replicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the maximum allowable RPD criteria and can be graphically represented by a curve calculated from the statistical detection limit and limiting repeatability using the formula: $MaxAllowableDifference = 100 \times \frac{StatisticalDetectionLimit}{Mean} + LimitingRepeatability$

RPD is shown in **Green** when within suggested criteria or **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria.

No Matrix Spike Duplicates were required for this job.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	NATA Accreditation does not cover this analysis.	NA	The sample was not analysed for this analyte
^	Performed by outside laboratory.		
LOR	Limit of Reporting		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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SAMPLE RECEIPT ADVICE

SE103066

CLIENT DETAILS

Contact Anwar Barbhuyia
Client Geotechnique
Address P.O. Box 880
PENRITH NSW 2751

Telephone 02 4722 2700
Facsimile 02 4722 6161
Email anwar.barbhuyia@geotech.com.au

Project **12576/1 - Marsden Park Precinct**
Order Number (Not specified)
Samples 11

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Fri 4/11/2011
Report Due Fri 11/11/2011
SGS Reference **SE103066**

SUBMISSION DETAILS

This is to confirm that 11 samples were received on Friday 4/11/2011. Results are expected to be ready by Friday 11/11/2011. Please quote SGS reference SE103066 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	10 Soil, 1 Water	Type of documentation received	COC
Date documentation received	4/11/2011	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Samples will be held for one month for water samples and two months for soil samples from date of report, unless otherwise instructed.

COMMENTS

Filtration and acidification will be conducted at SGS laboratory for dissolved metals analysis from the 1L amber bottle supplied. 5 soil samples have been placed on hold and no tests assigned. These samples will not be processed.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

CLIENT DETAILS

Client	Geotechnique	Project	12576/1 - Marsden Park Precinct
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SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	OC Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in	PCBs in Soil	Total Recoverable Metals in Soil by ICPOES from	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	TP60 0-0.1	1	26	-	-	7	-	-	-
002	TP61 0-0.15	1	26	-	-	7	-	-	-
003	TP62 0-0.1	1	26	-	-	7	-	-	-
004	TP63 0-0.1	1	26	-	-	7	-	-	-
005	TP64 0-0.3	1	26	22	11	7	4	12	6
006	TP65 0-0.3	1	26	22	11	7	4	12	6
007	TP66 0-0.15	1	26	22	11	7	4	12	6
008	TP67 0-0.1	1	26	-	-	7	-	-	-
009	TP68 0-0.1	1	26	-	-	7	-	-	-
010	TP69 0-0.1	1	26	-	-	7	-	-	-

CONTINUED OVERLEAF

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client **Geotechnique** Project **12576/1 - Marsden Park Precinct**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	Moisture Content
001	TP60 0-0.1	-	-	1
002	TP61 0-0.15	-	-	1
003	TP62 0-0.1	-	-	1
004	TP63 0-0.1	-	-	1
005	TP64 0-0.3	-	-	1
006	TP65 0-0.3	-	-	1
007	TP66 0-0.15	-	-	1
008	TP67 0-0.1	-	-	1
009	TP68 0-0.1	-	-	1
010	TP69 0-0.1	-	-	1
011	Rinsate R6	1	7	-

The above table represents SGS Environmental Services' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

COC received 4/11/11 @ 3:47pm

Received By: S.S. 02/11/11
 Time: 2:00 pm
 San. plug intact:
 Ice/Cooler Pack:
 Temperature on Receipt: 2.82
 Storage Location: 3778-9
 Sample ID: SB 103066

GEOTECHNIQUE PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
 PENRITH NSW 2750

P O Box 880
 PENRITH NSW 2751

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

TO: SGS ENVIRONMENTAL SERVICES
 UNIT 16
 33 MADDOX STREET
 ALEXANDRIA NSW 2015

PH: 02 8594 0400 **FAX:** 02 8594 0499

ATTN: MS ANGELA MAMALICOS

Sampling By: AN **Job No:** 12576/1

Project:

Project Manager: AB **Location:** Marsden Park Precinct

Results required by: Normal Turnaround Time

Sampling details				Sample type		Results required by: Normal Turnaround Time									
Location	Depth (m)	Date	Time	Soil	Material	Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB					KEEP SAMPLE
1	TP60	0-0.1	3/11/2011	-	SG	✓			✓						YES
2	TP61	0-0.15	3/11/2011	-	SG	✓			✓						YES
3	TP62	0-0.1	3/11/2011	-	SG	✓			✓						YES
4	TP63	0-0.1	3/11/2011	-	SG	✓			✓						YES
5	TP64	0-0.3	3/11/2011	-	SG	✓	✓	✓	✓	✓					YES
	TP64	0.55-0.7	3/11/2011	-	SG										YES
6	TP65	0-0.3	3/11/2011	-	SG	✓	✓	✓	✓	✓					YES
	TP65	0.5-0.8	3/11/2011	-	SG										YES
	TP65	1.0-1.2	3/11/2011	-	SG										YES
	TP65	1.25-1.4	3/11/2011	-	SG										YES
7	TP66	0-0.15	3/11/2011	-	SG	✓	✓	✓	✓	✓					YES
	TP66	0.2-0.3	3/11/2011	-	SG										YES

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	AB	4/11/2011	Suba	[Signature]	04/11/11

Legend:

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

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

TO: SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015 PH: 02 8594 0400 FAX: 02 8594 0499 ATTN: MS ANGELA MAMALICOS	Sampling By: AN Job No: 12576/1 Project: Project Manager: AB Location: Marsden Park Precinct
---	---

Sampling details				Sample type		Results required by: Normal Turnaround Time									
Location	Depth (m)	Date	Time	Soil	Material	Metals As, Cd, Cr, Cu, Pb, Hg, Ni and Zn	TPH* & BTEX	PAH	OCP	PCB					KEEP SAMPLE
8 TP67	0-0.1	3/11/2011	-	SG		✓			✓						YES
9 TP68	0-0.1	3/11/2011	-	SG		✓			✓						YES
10 TP69	0-0.1	3/11/2011	-	SG		✓			✓						YES
11 Rinsate R6		3/11/2011	-		WG	✓									YES

Relinquished by				Received by			
Name	Signature	Date		Name	Signature	Date	
ANWAR BARBHUYIA	AB	4/11/2011		<i>[Signature]</i>	<i>[Signature]</i>	04/11/11	

Legend:

WG	Water sample, glass bottle	SG	Soil sample (glass jar)	SP	Soil sample (plastic bag)	* Purge & Trap
WP	Water sample, plastic bottle	FCP	Fibro Cement Piece	✓	Test required	

CLIENT DETAILS

Contact **Anwar Barbhuyia**
 Geotechnique
 Client Address **P.O. Box 880
 NSW 2751**

Telephone **02 4722 2700**
 Facsimile **02 4722 6161**
 Email **anwar.barbhuyia@geotech.com.au**

Project **12576-1 - Marsden Park Precinct**
 Order Number **(Not specified)**
 Samples **18**

LABORATORY DETAILS

Manager **Huong Crawford**
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SGS Reference **SE103091 R1**
 Report Number **0000011813**
 Date Reported **15 Nov 2011**
 Date Received **07 Nov 2011**

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
 Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No.SE103091 R0 dated 14/11/11 issued by SGS Environmental Services due to the addition of VOC results for trip spike.

SIGNATORIES



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	Sample Number	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
	Sample Matrix	Soil	Soil	Soil	Soil	Soil
	Sample Date	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
	Sample Name	TP70 0-0.1	TP70 0.1-0.4	TP71 0-0.1	TP72 0-0.1	TP72 0.1-0.4

Parameter Units LOR

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Benzene	mg/kg	0.1	-	<0.1	-	-	<0.1
Toluene	mg/kg	0.1	-	<0.1	-	-	<0.1
Ethylbenzene	mg/kg	0.1	-	<0.1	-	-	<0.1
m/p-xylene	mg/kg	0.2	-	<0.2	-	-	<0.2
o-xylene	mg/kg	0.1	-	<0.1	-	-	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	<0.1	-	-	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	96	-	-	101
d4-1,2-dichloroethane (Surrogate)	%	-	-	99	-	-	102
d8-toluene (Surrogate)	%	-	-	95	-	-	98
Bromofluorobenzene (Surrogate)	%	-	-	100	-	-	102

Totals

Total BTEX*	mg/kg	-	-	0	-	-	0
Total Xylenes*	mg/kg	0.3	-	<0.3	-	-	<0.3

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	<20	-	-	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	102	-	-	89
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	<20	-	-	<20
TRH C15-C28	mg/kg	50	-	140	-	-	<50
TRH C29-C40	mg/kg	150	-	<150	-	-	<150

Surrogates

TRH (Surrogate)	%	-	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	0.1	-	-	<0.1
2-methylnaphthalene	mg/kg	0.1	-	0.1	-	-	<0.1
1-methylnaphthalene	mg/kg	0.1	-	0.1	-	-	<0.1
Acenaphthylene	mg/kg	0.1	-	0.8	-	-	<0.1
Acenaphthene	mg/kg	0.1	-	0.1	-	-	<0.1
Fluorene	mg/kg	0.1	-	0.8	-	-	<0.1
Phenanthrene	mg/kg	0.1	-	6.3	-	-	<0.1
Anthracene	mg/kg	0.1	-	1.9	-	-	<0.1
Fluoranthene	mg/kg	0.1	-	6.3	-	-	<0.1
Pyrene	mg/kg	0.1	-	5.4	-	-	<0.1
Benzo(a)anthracene	mg/kg	0.1	-	3.4	-	-	<0.1
Chrysene	mg/kg	0.1	-	1.5	-	-	<0.1
Benzo(b)fluoranthene	mg/kg	0.1	-	2.4	-	-	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	-	0.8	-	-	<0.1
Benzo(a)pyrene	mg/kg	0.1	-	1.8	-	-	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	0.8	-	-	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	-	0.2	-	-	<0.1

Sample Number	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Sample Matrix	Soil	Soil	Soil	Soil	Soil
Sample Date	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name	TP70 0-0.1	TP70 0.1-0.4	TP71 0-0.1	TP72 0-0.1	TP72 0.1-0.4

Parameter Units LOR

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Parameter	Units	LOR	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Benzo(ghi)perylene	mg/kg	0.1	-	0.8	-	-	<0.1
Total PAH	mg/kg	0.8	-	33	-	-	<0.8

Surrogates

Surrogate	Units	LOR	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
d5-nitrobenzene (Surrogate)	%	-	-	90	-	-	94
2-fluorobiphenyl (Surrogate)	%	-	-	94	-	-	85
d14-p-terphenyl (Surrogate)	%	-	-	100	-	-	105

OC Pesticides in Soil Method: AN400/AN420

Parameter	Units	LOR	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	0.2	<0.11	<0.11	<0.11	<0.11
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Sample Number			SE103091.001	SE103091.002	SE103091.003	SE103091.004	SE103091.005
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP70 0-0.1	TP70 0.1-0.4	TP71 0-0.1	TP72 0-0.1	TP72 0.1-0.4

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	105	107	103	100	98
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1221	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1232	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1242	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1248	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1254	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1260	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1262	mg/kg	0.2	-	<0.2	-	-	<0.2
Arochlor 1268	mg/kg	0.2	-	<0.2	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	<1	-	-	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	107	-	-	98
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	11	8	6	8	11
Cadmium, Cd	mg/kg	0.3	0.5	0.5	0.3	0.6	1.0
Chromium, Cr	mg/kg	0.3	23	15	19	21	27
Copper, Cu	mg/kg	0.5	19	68	3.6	12	24
Lead, Pb	mg/kg	1	170	58	17	23	67
Nickel, Ni	mg/kg	0.5	7.4	17	2.0	4.7	6.9
Zinc, Zn	mg/kg	0.5	84	88	9.4	60	160

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	0.06	0.06	<0.05	<0.05	0.06
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Moisture Content Method: AN234

% Moisture	%	0.5	14	13	11	11	10
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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Parameter	Units	LOR	SE103091.006	SE103091.007	SE103091.008	SE103091.009	SE103091.010
Sample Number			SE103091.006	SE103091.007	SE103091.008	SE103091.009	SE103091.010
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP73 0-0.1	TP74 0-0.1	TP75 0-0.15	TP76 0-0.3	TP77 0-0.3

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	-	-	-	<0.1	<0.1
Toluene	mg/kg	0.1	-	-	-	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	-	-	-	<0.1	<0.1
m/p-xylene	mg/kg	0.2	-	-	-	<0.2	<0.2
o-xylene	mg/kg	0.1	-	-	-	<0.1	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	<0.1	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	-	-	-	97	97
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	100	99
d8-toluene (Surrogate)	%	-	-	-	-	92	92
Bromofluorobenzene (Surrogate)	%	-	-	-	-	104	101

Totals

Total BTEX*	mg/kg	-	-	-	-	0	0
Total Xylenes*	mg/kg	0.3	-	-	-	<0.3	<0.3

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	-	-	-	<20	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	-	-	-	92	98
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	-	-	-	<20	<20
TRH C15-C28	mg/kg	50	-	-	-	120	<50
TRH C29-C40	mg/kg	150	-	-	-	420	<150

Surrogates

TRH (Surrogate)	%	-	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	-	-	-	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	-	-	-	<0.1	<0.1
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	-	-	-	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	-	-	-	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	<0.1	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	-	-	-	<0.1	<0.1

Parameter	Units	LOR	SE103091.006	SE103091.007	SE103091.008	SE103091.009	SE103091.010
Sample Number			SE103091.006	SE103091.007	SE103091.008	SE103091.009	SE103091.010
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP73 0-0.1	TP74 0-0.1	TP75 0-0.15	TP76 0-0.3	TP77 0-0.3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Benzo(ghi)perylene	mg/kg	0.1	-	-	-	<0.1	<0.1
Total PAH	mg/kg	0.8	-	-	-	<0.8	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	-	-	-	94	75
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	93	73
d14-p-terphenyl (Surrogate)	%	-	-	-	-	101	99

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.11	<0.11	<0.11	<0.11	<0.11
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

	Sample Number	SE103091.006	SE103091.007	SE103091.008	SE103091.009	SE103091.010
	Sample Matrix	Soil	Soil	Soil	Soil	Soil
	Sample Date	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
	Sample Name	TP73 0-0.1	TP74 0-0.1	TP75 0-0.15	TP76 0-0.3	TP77 0-0.3
Parameter	Units	LOR				

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	100	103	102	105	101
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PCBs in Soil Method: AN400/AN420

Arochlor	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1016	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	-	-	-	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	-	-	-	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	-	-	<1	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	-	105	101
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Metal	mg/kg	3	9	7	9	12	8
Arsenic, As	mg/kg	3	9	7	9	12	8
Cadmium, Cd	mg/kg	0.3	0.8	0.5	0.5	0.5	0.4
Chromium, Cr	mg/kg	0.3	28	24	17	19	14
Copper, Cu	mg/kg	0.5	11	8.6	23	19	19
Lead, Pb	mg/kg	1	27	32	19	15	15
Nickel, Ni	mg/kg	0.5	6.0	5.3	4.9	2.0	3.4
Zinc, Zn	mg/kg	0.5	26	17	55	36	26

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
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Moisture Content Method: AN234

% Moisture	%	0.5	7.6	19	9.7	17	13
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Metal	mg/L	0.05	-	-	-	-	-
Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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Parameter	Units	LOR	SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Number			SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP78 0-0.3	TP79 0-0.1	TP80 0-0.15	SD6	SP2

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Benzene	mg/kg	0.1	<0.1	-	-	-	<0.1
Toluene	mg/kg	0.1	<0.1	-	-	-	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	-	-	-	<0.1
m/p-xylene	mg/kg	0.2	<0.2	-	-	-	<0.2
o-xylene	mg/kg	0.1	<0.1	-	-	-	<0.1

Oxygenated Compounds

MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	-	-	-	<0.1
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	97	-	-	-	96
d4-1,2-dichloroethane (Surrogate)	%	-	98	-	-	-	99
d8-toluene (Surrogate)	%	-	92	-	-	-	91
Bromofluorobenzene (Surrogate)	%	-	102	-	-	-	103

Totals

Total BTEX*	mg/kg	-	0	-	-	-	0
Total Xylenes*	mg/kg	0.3	<0.3	-	-	-	<0.3

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	<20	-	-	-	<20
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Surrogates

Trifluorotoluene (Surrogate)	%	-	113	-	-	-	103
Dibromofluoromethane (Surrogate)	%	-	-	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	-	-	-	<20
TRH C15-C28	mg/kg	50	<50	-	-	-	<50
TRH C29-C40	mg/kg	150	<150	-	-	-	<150

Surrogates

TRH (Surrogate)	%	-	-	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	-	-	-	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	-	-	-	<0.1
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	<0.1	-	-	-	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	-	-	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	-	-	-	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	-	-	<0.1
Dibenzo(a&h)anthracene	mg/kg	0.1	<0.1	-	-	-	<0.1

Parameter	Units	LOR	SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Number			SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP78 0-0.3	TP79 0-0.1	TP80 0-0.15	SD6	SP2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Benzo(ghi)perylene	mg/kg	0.1	<0.1	-	-	-	<0.1
Total PAH	mg/kg	0.8	<0.8	-	-	-	<0.8

Surrogates

d5-nitrobenzene (Surrogate)	%	-	98	-	-	-	95
2-fluorobiphenyl (Surrogate)	%	-	92	-	-	-	89
d14-p-terphenyl (Surrogate)	%	-	105	-	-	-	105

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.05	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Number			SE103091.011	SE103091.012	SE103091.013	SE103091.014	SE103091.015
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			TP78 0-0.3	TP79 0-0.1	TP80 0-0.15	SD6	SP2

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	103	100	81	97	103
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	-	-	-	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	-	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	-	-	-	<1

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	103	-	-	-	103
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	9	9	10	<3	5
Cadmium, Cd	mg/kg	0.3	0.4	0.4	<0.3	<0.3	0.4
Chromium, Cr	mg/kg	0.3	14	16	13	9.5	14
Copper, Cu	mg/kg	0.5	26	13	11	26	29
Lead, Pb	mg/kg	1	23	18	14	18	17
Nickel, Ni	mg/kg	0.5	6.8	6.5	6.0	8.3	23
Zinc, Zn	mg/kg	0.5	66	26	20	42	67

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
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Moisture Content Method: AN234

% Moisture	%	0.5	8.5	7.8	7.9	38	12
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	-	-	-	-
Cadmium, Cd	mg/L	0.005	-	-	-	-	-
Chromium, Cr	mg/L	0.005	-	-	-	-	-
Copper, Cu	mg/L	0.01	-	-	-	-	-
Lead, Pb	mg/L	0.02	-	-	-	-	-
Nickel, Ni	mg/L	0.01	-	-	-	-	-
Zinc, Zn	mg/L	0.01	-	-	-	-	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	-	-	-	-
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	Sample Number	SE103091.016	SE103091.017	SE103091.018
	Sample Matrix	Soil	Water	Soil
	Sample Date	04 Nov 2011	04 Nov 2011	04 Nov 2011
	Sample Name	Duplicate D6	Rinsate R7	Trip Spike TS2
Parameter	Units	LOR		

VOC's in Soil Method: AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	Units	LOR	SE103091.016	SE103091.017	SE103091.018
Benzene	mg/kg	0.1	<0.1	-	[99%]
Toluene	mg/kg	0.1	<0.1	-	[99%]
Ethylbenzene	mg/kg	0.1	<0.1	-	[101%]
m/p-xylene	mg/kg	0.2	<0.2	-	[99%]
o-xylene	mg/kg	0.1	<0.1	-	[98%]

Oxygenated Compounds

MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	-	[99%]
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Surrogates

Dibromofluoromethane (Surrogate)	%	-	102	-	87
d4-1,2-dichloroethane (Surrogate)	%	-	102	-	105
d8-toluene (Surrogate)	%	-	93	-	102
Bromofluorobenzene (Surrogate)	%	-	105	-	103

Totals

Total BTEX*	mg/kg	-	0	-	-
Total Xylenes*	mg/kg	0.3	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil Method: AN433/AN434

TRH C6-C9	mg/kg	20	<20	-	-
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Surrogates

Trifluorotoluene (Surrogate)	%	-	86	-	-
Dibromofluoromethane (Surrogate)	%	-	-	-	-
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-

TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403

TRH C10-C14	mg/kg	20	<20	-	-
TRH C15-C28	mg/kg	50	<50	-	-
TRH C29-C40	mg/kg	150	<150	-	-

Surrogates

TRH (Surrogate)	%	-	-	-	-
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PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420

Naphthalene	mg/kg	0.1	<0.1	-	-
2-methylnaphthalene	mg/kg	0.1	<0.1	-	-
1-methylnaphthalene	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)fluoranthene	mg/kg	0.1	<0.1	-	-
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	-	-
Benzo(a)pyrene	mg/kg	0.1	<0.1	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	-	-
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	-	-

	Sample Number	SE103091.016	SE103091.017	SE103091.018
	Sample Matrix	Soil	Water	Soil
	Sample Date	04 Nov 2011	04 Nov 2011	04 Nov 2011
	Sample Name	Duplicate D6	Rinsate R7	Trip Spike TS2
Parameter	Units	LOR		

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 (continued)

Benzo(ghi)perylene	mg/kg	0.1	<0.1	-	-
Total PAH	mg/kg	0.8	<0.8	-	-

Surrogates

d5-nitrobenzene (Surrogate)	%	-	88	-	-
2-fluorobiphenyl (Surrogate)	%	-	83	-	-
d14-p-terphenyl (Surrogate)	%	-	96	-	-

OC Pesticides in Soil Method: AN400/AN420

Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	-
Alpha BHC	mg/kg	0.1	<0.1	-	-
Lindane	mg/kg	0.1	<0.1	-	-
Heptachlor	mg/kg	0.1	<0.1	-	-
Aldrin	mg/kg	0.1	<0.1	-	-
Beta BHC	mg/kg	0.1	<0.1	-	-
Delta BHC	mg/kg	0.1	<0.1	-	-
Heptachlor epoxide	mg/kg	0.1	<0.1	-	-
o,p'-DDE	mg/kg	0.1	<0.1	-	-
Alpha Endosulfan	mg/kg	0.2	<0.2	-	-
Gamma Chlordane	mg/kg	0.1	<0.1	-	-
Alpha Chlordane	mg/kg	0.1	<0.1	-	-
trans-Nonachlor	mg/kg	0.1	<0.1	-	-
p,p'-DDE	mg/kg	0.1	<0.1	-	-
Dieldrin	mg/kg	0.05	<0.1	-	-
Endrin	mg/kg	0.2	<0.2	-	-
o,p'-DDD	mg/kg	0.1	<0.1	-	-
o,p'-DDT	mg/kg	0.1	<0.1	-	-
Beta Endosulfan	mg/kg	0.2	<0.2	-	-
p,p'-DDD	mg/kg	0.1	<0.1	-	-
p,p'-DDT	mg/kg	0.1	<0.1	-	-
Endosulfan sulphate	mg/kg	0.1	<0.1	-	-
Endrin Aldehyde	mg/kg	0.1	<0.1	-	-
Methoxychlor	mg/kg	0.1	<0.1	-	-
Endrin Ketone	mg/kg	0.1	<0.1	-	-

Parameter	Units	LOR	SE103091.016	SE103091.017	SE103091.018
Sample Number			SE103091.016	SE103091.017	SE103091.018
Sample Matrix			Soil	Water	Soil
Sample Date			04 Nov 2011	04 Nov 2011	04 Nov 2011
Sample Name			Duplicate D6	Rinsate R7	Trip Spike TS2

OC Pesticides in Soil Method: AN400/AN420 (continued)

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	114	-	-
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PCBs in Soil Method: AN400/AN420

Arochlor 1016	mg/kg	0.2	<0.2	-	-
Arochlor 1221	mg/kg	0.2	<0.2	-	-
Arochlor 1232	mg/kg	0.2	<0.2	-	-
Arochlor 1242	mg/kg	0.2	<0.2	-	-
Arochlor 1248	mg/kg	0.2	<0.2	-	-
Arochlor 1254	mg/kg	0.2	<0.2	-	-
Arochlor 1260	mg/kg	0.2	<0.2	-	-
Arochlor 1262	mg/kg	0.2	<0.2	-	-
Arochlor 1268	mg/kg	0.2	<0.2	-	-
Total PCBs (Arochlors)	mg/kg	1	<1	-	-

Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	114	-	-
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Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: AN040/AN320

Arsenic, As	mg/kg	3	6	-	-
Cadmium, Cd	mg/kg	0.3	<0.3	-	-
Chromium, Cr	mg/kg	0.3	15	-	-
Copper, Cu	mg/kg	0.5	17	-	-
Lead, Pb	mg/kg	1	12	-	-
Nickel, Ni	mg/kg	0.5	3.1	-	-
Zinc, Zn	mg/kg	0.5	24	-	-

Mercury in Soil Method: AN312

Mercury	mg/kg	0.05	<0.05	-	-
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Moisture Content Method: AN234

% Moisture	%	0.5	16	-	-
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Metals in Water (Dissolved) by ICPOES Method: AN320/AN321

Arsenic, As	mg/L	0.05	-	<0.05	-
Cadmium, Cd	mg/L	0.005	-	<0.005	-
Chromium, Cr	mg/L	0.005	-	<0.005	-
Copper, Cu	mg/L	0.01	-	<0.01	-
Lead, Pb	mg/L	0.02	-	<0.02	-
Nickel, Ni	mg/L	0.01	-	<0.010	-
Zinc, Zn	mg/L	0.01	-	<0.01	-

Mercury (dissolved) in Water Method: AN311/AN312

Mercury	mg/L	0.0001	-	<0.0001	-
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MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Mercury	LB008531	mg/L	0.0001	<0.0001	3%	101%

Mercury in Soil Method: ME-(AU)-[ENV]AN312

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB008386	mg/kg	0.05	<0.05	0%	101%	88%

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arsenic, As	LB008561	mg/L	0.05	<0.05	0%	94%
Cadmium, Cd	LB008561	mg/L	0.005	<0.005	0%	96%
Chromium, Cr	LB008561	mg/L	0.005	<0.005	0%	96%
Copper, Cu	LB008561	mg/L	0.01	<0.01	0%	98%
Lead, Pb	LB008561	mg/L	0.02	<0.02	0%	97%
Nickel, Ni	LB008561	mg/L	0.01	<0.010	0%	96%
Zinc, Zn	LB008561	mg/L	0.01	<0.01	0%	95%

Moisture Content Method: ME-(AU)-[ENV]AN234

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB008332	%	0.5	3 - 7%

OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexachlorobenzene (HCB)	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Alpha BHC	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Lindane	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Heptachlor	LB008393	mg/kg	0.1	<0.1	0%	116%	135%
Aldrin	LB008393	mg/kg	0.1	<0.1	0%	115%	135%
Beta BHC	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Delta BHC	LB008393	mg/kg	0.1	<0.1	0%	107%	130%
Heptachlor epoxide	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
o,p'-DDE	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Endosulfan	LB008393	mg/kg	0.2	<0.2	0%	NA	NA
Gamma Chlordane	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Chlordane	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
trans-Nonachlor	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDE	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Dieldrin	LB008393	mg/kg	0.05	<0.1	0%	110%	135%
Endrin	LB008393	mg/kg	0.2	<0.2	0%	118%	135%
o,p'-DDD	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
o,p'-DDT	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Beta Endosulfan	LB008393	mg/kg	0.2	<0.2	0%	NA	NA
p,p'-DDD	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDT	LB008393	mg/kg	0.1	<0.1	0%	116%	95%
Endosulfan sulphate	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Endrin Aldehyde	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Methoxychlor	LB008393	mg/kg	0.1	<0.1	0%	NA	NA
Endrin Ketone	LB008393	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008393	%	-	104%	0 - 1%	92%	117%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB008394	mg/kg	0.1	<0.1	8%	98%	108%
2-methylnaphthalene	LB008394	mg/kg	0.1	<0.1	0%	NA	NA
1-methylnaphthalene	LB008394	mg/kg	0.1	<0.1	0%	NA	NA
Acenaphthylene	LB008394	mg/kg	0.1	<0.1	1%	103%	108%
Acenaphthene	LB008394	mg/kg	0.1	<0.1	0%	104%	117%
Fluorene	LB008394	mg/kg	0.1	<0.1	0%	NA	NA
Phenanthrene	LB008394	mg/kg	0.1	<0.1	2%	104%	108%
Anthracene	LB008394	mg/kg	0.1	<0.1	0%	111%	108%
Fluoranthene	LB008394	mg/kg	0.1	<0.1	2%	107%	108%
Pyrene	LB008394	mg/kg	0.1	<0.1	1%	110%	115%
Benzo(a)anthracene	LB008394	mg/kg	0.1	<0.1	4%	NA	NA
Chrysene	LB008394	mg/kg	0.1	<0.1	3%	NA	NA
Benzo(b)fluoranthene	LB008394	mg/kg	0.1	<0.1	4%	NA	NA
Benzo(k)fluoranthene	LB008394	mg/kg	0.1	<0.1	18%	NA	NA
Benzo(a)pyrene	LB008394	mg/kg	0.1	<0.1	1%	111%	104%
Indeno(1,2,3-cd)pyrene	LB008394	mg/kg	0.1	<0.1	1%	NA	NA
Dibenzo(a&h)anthracene	LB008394	mg/kg	0.1	<0.1	5%	NA	NA
Benzo(ghi)perylene	LB008394	mg/kg	0.1	<0.1	1%	NA	NA
Total PAH	LB008394	mg/kg	0.8	<0.8	1%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB008394	%	-	103%	0%	101%	100%
2-fluorobiphenyl (Surrogate)	LB008394	%	-	93%	0%	95%	96%
d14-p-terphenyl (Surrogate)	LB008394	%	-	107%	2%	110%	101%

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Arochlor 1016	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1221	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1232	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1242	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1248	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1254	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1260	LB008393	mg/kg	0.2	<0.2	0%	118%
Arochlor 1262	LB008393	mg/kg	0.2	<0.2	0%	NA
Arochlor 1268	LB008393	mg/kg	0.2	<0.2	0%	NA
Total PCBs (Arochlors)	LB008393	mg/kg	1	<1	0%	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB008393	%	-	104%	0 - 1%	99%

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB008384	mg/kg	3	<3	0 - 8%	101%	69%
	LB008387	mg/kg	3	<3	8 - 13%	103%	73%
Cadmium, Cd	LB008384	mg/kg	0.3	<0.3	0 - 3%	102%	
	LB008387	mg/kg	0.3	<0.3	0 - 6%	102%	73%
Chromium, Cr	LB008384	mg/kg	0.3	<0.3	2 - 6%	102%	
	LB008387	mg/kg	0.3	<0.3	0 - 19%	102%	63%
Copper, Cu	LB008384	mg/kg	0.5	<0.5	0 - 19%	101%	
	LB008387	mg/kg	0.5	<0.5	1 - 10%	102%	78%

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA', the results are less than the LOR and thus the RPD is not applicable.

Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320 (continued)

				MB	DUP %RPD	LCS %Recovery	MS %Recovery
Lead, Pb	LB008384	mg/kg	1	<1	0 - 2%	101%	
	LB008387	mg/kg	1	<1	3%	100%	65%
Nickel, Ni	LB008384	mg/kg	0.5	<0.5	10 - 17%	104%	
	LB008387	mg/kg	0.5	<0.5	3 - 6%	104%	75%
Zinc, Zn	LB008384	mg/kg	0.5	<0.5	7 - 10%	103%	
	LB008387	mg/kg	0.5	<0.5	1 - 18%	103%	79%

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB008391	mg/kg	20	<20	0%	118%	118%
TRH C15-C28	LB008391	mg/kg	50	<50	5%	125%	98%
TRH C29-C40	LB008391	mg/kg	150	<150	0%	NA	NA

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB008381	mg/kg	0.1	<0.1		91%	
	LB008483	mg/kg	0.1	<0.1	0%	115%	105%
Toluene	LB008381	mg/kg	0.1	<0.1		110%	
	LB008483	mg/kg	0.1	<0.1	0%	112%	107%
Ethylbenzene	LB008381	mg/kg	0.1	<0.1		96%	
	LB008483	mg/kg	0.1	<0.1	0%	133%	124%
m/p-xylene	LB008381	mg/kg	0.2	<0.2		99%	
	LB008483	mg/kg	0.2	<0.2	0%	130%	124%
o-xylene	LB008381	mg/kg	0.1	<0.1		104%	
	LB008483	mg/kg	0.1	<0.1	0%	125%	122%

Oxygenated Compounds

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
MtBE (Methyl-tert-butyl ether)	LB008381	mg/kg	0.1	<0.1		NA	
	LB008483	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB008381	%	-	85%		78%	
	LB008483	%	-	96%	1%	93%	96%
d4-1,2-dichloroethane (Surrogate)	LB008381	%	-	88%		89%	
	LB008483	%	-	100%	1%	97%	99%
d8-toluene (Surrogate)	LB008381	%	-	104%		103%	
	LB008483	%	-	95%	0%	94%	97%
Bromofluorobenzene (Surrogate)	LB008381	%	-	102%		104%	
	LB008483	%	-	101%	3%	101%	99%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX*	LB008381	mg/kg	-	0		NA	
	LB008483	mg/kg	-	0	NA	NA	NA
Total Xylenes*	LB008381	mg/kg	0.3	<0.3		NA	
	LB008483	mg/kg	0.3	<0.3	0%	NA	NA

MB blank results are compared to the Limit of Reporting
 LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
 DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-[ENV]AN433/AN434

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C6-C9	LB008381	mg/kg	20	<20	0%	125%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Trifluorotoluene (Surrogate)	LB008381	%	-	119%	45%	126%

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN088	Orbital rolling for Organic pollutants are extracted from soil/sediment by transferring an appropriate mass of sample to a clear soil jar and extracting with 1:1 Dichloromethane/Acetone. Orbital Rolling method is intended for the extraction of semi-volatile organic compounds from soil/sediment samples, and is based somewhat on USEPA method 3570 (Micro Organic extraction and sample preparation). Method 3700.
AN234	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN311/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN320/AN321	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320/AN321	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Petroleum Hydrocarbons (TPH) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the elluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependant on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

METHOD

METHODOLOGY SUMMARY

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433/AN434

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

IS	Insufficient sample for analysis.	QFH	QC result is above the upper tolerance
LNR	Sample listed, but not received.	QFL	QC result is below the lower tolerance
*	This analysis is not covered by the scope of accreditation.	-	The sample was not analysed for this analyte
^	Performed by outside laboratory.	NVL	Not Validated
LOR	Limit of Reporting		
↑↓	Raised or Lowered Limit of Reporting		

Samples analysed as received.
Solid samples expressed on a dry weight basis.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here:
<http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>

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STATEMENT OF QA/QC PERFORMANCE AGAINST DATA QUALITY OBJECTIVES

SE103091 R1

CLIENT DETAILS

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Project **12576-1 - Marsden Park Precinct**
Order Number (Not specified)
Samples 18

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SGS Reference SE103091 R1
Report Number 0000011814
Date Reported 15 Nov 2011

COMMENTS

All the laboratory data for each environmental matrix was compared to the SGS Environmental Services' stated data quality objectives (DQO).

Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the chain of custody document and was supplied by the client.

This QA/QC statement must be read in conjunction with the referenced analytical report.

The statement and the analytical report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	Volatile Petroleum Hydrocarbons in Soil	1 Item
MS	Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest	1 Item
	Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest	2 Items

SAMPLE SUMMARY

Sample counts by matrix	16 Soils, 1 Water	Type of documentation received	COC
Date documentation received	7/11/2011	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
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Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311/AN312

Rinsate R7	SE103091.017	LB008531	04 Nov 2011	07 Nov 2011	02 Dec 2011	10 Nov 2011	02 Dec 2011	10 Nov 2011
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Mercury in Soil Method: ME-(AU)-[ENV]AN312

TP70 0-0.1	SE103091.001	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP71 0-0.1	SE103091.003	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP72 0-0.1	SE103091.004	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP73 0-0.1	SE103091.006	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP74 0-0.1	SE103091.007	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP75 0-0.15	SE103091.008	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP76 0-0.3	SE103091.009	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP77 0-0.3	SE103091.010	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP78 0-0.3	SE103091.011	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP79 0-0.1	SE103091.012	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
TP80 0-0.15	SE103091.013	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
SD6	SE103091.014	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
SP2	SE103091.015	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011
Duplicate D6	SE103091.016	LB008386	04 Nov 2011	07 Nov 2011	02 Dec 2011	08 Nov 2011	02 Dec 2011	09 Nov 2011

Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320/AN321

Rinsate R7	SE103091.017	LB008561	04 Nov 2011	07 Nov 2011	02 May 2012	10 Nov 2011	02 May 2012	11 Nov 2011
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Moisture Content Method: ME-(AU)-[ENV]AN234

TP70 0-0.1	SE103091.001	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP71 0-0.1	SE103091.003	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP72 0-0.1	SE103091.004	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP73 0-0.1	SE103091.006	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP74 0-0.1	SE103091.007	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP75 0-0.15	SE103091.008	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP76 0-0.3	SE103091.009	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP77 0-0.3	SE103091.010	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP78 0-0.3	SE103091.011	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP79 0-0.1	SE103091.012	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
TP80 0-0.15	SE103091.013	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
SD6	SE103091.014	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
SP2	SE103091.015	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011
Duplicate D6	SE103091.016	LB008332	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	13 Nov 2011	09 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
OC Pesticides in Soil Method: ME-(AU)-[ENV]AN400/AN420								
TP70 0-0.1	SE103091.001	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP71 0-0.1	SE103091.003	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP72 0-0.1	SE103091.004	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP73 0-0.1	SE103091.006	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP74 0-0.1	SE103091.007	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP75 0-0.15	SE103091.008	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP76 0-0.3	SE103091.009	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP77 0-0.3	SE103091.010	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP78 0-0.3	SE103091.011	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP79 0-0.1	SE103091.012	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP80 0-0.15	SE103091.013	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
SD6	SE103091.014	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
SP2	SE103091.015	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
Duplicate D6	SE103091.016	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

TP70 0.1-0.4	SE103091.002	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP76 0-0.3	SE103091.009	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP77 0-0.3	SE103091.010	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP78 0-0.3	SE103091.011	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
SP2	SE103091.015	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
Duplicate D6	SE103091.016	LB008394	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011

PCBs in Soil Method: ME-(AU)-[ENV]AN400/AN420

TP70 0-0.1	SE103091.001	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP71 0-0.1	SE103091.003	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP72 0-0.1	SE103091.004	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP73 0-0.1	SE103091.006	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP74 0-0.1	SE103091.007	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP75 0-0.15	SE103091.008	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP76 0-0.3	SE103091.009	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP77 0-0.3	SE103091.010	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP78 0-0.3	SE103091.011	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP79 0-0.1	SE103091.012	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
TP80 0-0.15	SE103091.013	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
SD6	SE103091.014	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
SP2	SE103091.015	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011
Duplicate D6	SE103091.016	LB008393	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	14 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Total Recoverable Metals in Soil by ICPOES from EPA 200.8 Digest Method: ME-(AU)-[ENV]AN040/AN320								
TP70 0-0.1	SE103091.001	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP71 0-0.1	SE103091.003	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP72 0-0.1	SE103091.004	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP73 0-0.1	SE103091.006	LB008384	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	10 Nov 2011
TP74 0-0.1	SE103091.007	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP75 0-0.15	SE103091.008	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP76 0-0.3	SE103091.009	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP77 0-0.3	SE103091.010	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP78 0-0.3	SE103091.011	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP79 0-0.1	SE103091.012	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
TP80 0-0.15	SE103091.013	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
SD6	SE103091.014	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
SP2	SE103091.015	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011
Duplicate D6	SE103091.016	LB008387	04 Nov 2011	07 Nov 2011	02 May 2012	08 Nov 2011	02 May 2012	11 Nov 2011

TRH (Total Recoverable Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN403

TP70 0-0.1	SE103091.001	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP70 0.1-0.4	SE103091.002	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP71 0-0.1	SE103091.003	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP72 0-0.1	SE103091.004	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP73 0-0.1	SE103091.006	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP74 0-0.1	SE103091.007	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP75 0-0.15	SE103091.008	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP76 0-0.3	SE103091.009	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP77 0-0.3	SE103091.010	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP78 0-0.3	SE103091.011	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP79 0-0.1	SE103091.012	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
TP80 0-0.15	SE103091.013	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
SD6	SE103091.014	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
SP2	SE103091.015	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011
Duplicate D6	SE103091.016	LB008391	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011

VOC's in Soil Method: ME-(AU)-[ENV]AN433/AN434

TP70 0.1-0.4	SE103091.002	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
TP76 0-0.3	SE103091.009	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
TP77 0-0.3	SE103091.010	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
TP78 0-0.3	SE103091.011	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
SP2	SE103091.015	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
Duplicate D6	SE103091.016	LB008483	04 Nov 2011	07 Nov 2011	18 Nov 2011	09 Nov 2011	19 Dec 2011	10 Nov 2011
Trip Spike TS2	SE103091.018	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	10 Nov 2011

HOLDING TIMES

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field sampling guide for containers and holding time" (Ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

The extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and Analysis dates are shown in **Green** when within suggested criteria and in **Bold** with an appended dagger symbol and **Red†** when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Sample Name	Sample Number	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Volatile Petroleum Hydrocarbons in Soil Method: ME-(AU)-ENVJAN433/AN434								
TP70 0.1-0.4	SE103091.002	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP72 0.1-0.4	SE103091.005	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP76 0-0.3	SE103091.009	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP77 0-0.3	SE103091.010	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
TP78 0-0.3	SE103091.011	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
SP2	SE103091.015	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
Duplicate D6	SE103091.016	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011
Trip Spike TS2	SE103091.018	LB008381	04 Nov 2011	07 Nov 2011	18 Nov 2011	08 Nov 2011	18 Dec 2011	09 Nov 2011