QUALITY CONTROL vTRH & BTEX in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/10/2012	[NT]	[NT]	LCS-4	17/10/2012
Date analysed	-			18/10/2012	[NT]	[NT]	LCS-4	18/10/2012
vTRH C_6 - C_9	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-4	108%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-4	74%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-4	80%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-4	127%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-4	130%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-4	121%
Surrogate aaa-Trifluorotoluene	%		Org-016	77	[NT]	[NT]	LCS-4	86%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/10/2012	[NT]	[NT]	LCS-4	17/10/2012
Date analysed	-			18/10/2012	[NT]	[NT]	LCS-4	18/10/2012
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-4	119%
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-4	105%
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-4	81%
Surrogate o-Terphenyl	%		Org-003	85	[NT]	[NT]	LCS-4	104%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/10/2012	[NT]	[NT]	LCS-3	17/10/2012
Date analysed	-			17/10/2012	[NT]	[NT]	LCS-3	17/10/2012
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	111%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	107%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	111%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	114%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	106%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-3	98%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-3	139%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d_{14}	%		Org-012 subset	121	[NT]	[NT]	LCS-3	129%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			17/10/2012	[NT]	[NT]	LCS-1	17/10/2012
Date analysed	-			17/10/2012	[NT]	[NT]	LCS-1	17/10/2012
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-1	98%
Cadmium	mg/kg	0.5	Metals-020 ICP-AES	<0.5	[NT]	[NT]	LCS-1	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	101%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	97%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-1	117%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	99%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	100%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

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

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

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

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

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

ANALYTICAL REPORT

27 September 2010

Coffey Geotechnics Pty Ltd
8/12 Mars Road
LANE COVE WEST
NSW 2066

Attention: **Dan Butterworth**

Your Reference: GEOTLCOV24080AC

Our Reference: SE81592

Samples: 13 Soils, 2 Waters
Received: 21/09/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Edward Ibrahim
Laboratory Manager

Ravee Sivasubramaniam
Asbestos Signatory

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

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MBTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-3 BH MSB-2 1.00-1.10 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010	SE81592-5 BH MSB-3 0.50-0.60 Soil 18/02/2010	SE81592-8 BH MSB-4 0.20-0.30 Soil 18/02/2010
Date Extracted (MBTEX)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Date Analysed (MBTEX)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	88	103	83	94	107

MBTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-10 BH MSB-4 1.00-1.10 Soil 18/02/2010	SE81592-11 BH MSB-4 1.50-1.60 Soil 18/02/2010	SE81592-12 D1 Soil 18/02/2010
Date Extracted (MBTEX)		23/09/2010	23/09/2010	23/09/2010
Date Analysed (MBTEX)		23/09/2010	23/09/2010	23/09/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1	<0.1
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
Total Xylenes	mg/kg	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	86	89	79

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TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE81592-1	SE81592-3	SE81592-4	SE81592-5	SE81592-8
Your Reference	----------	BH MSB-2 0.20-0.30	BH MSB-2 1.00-1.10	BH MSB-3 0.20-0.30	BH MSB-3 0.50-0.60	BH MSB-4 0.20-0.30
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		18/02/2010	18/02/2010	18/02/2010	18/02/2010	18/02/2010
Date Extracted (TRH C6-C9 PT)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Date Analysed (TRH C6-C9 PT)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Date Analysed (TRH C10-C36)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T				
Our Reference:	UNITS	SE81592-10	SE81592-11	SE81592-12
Your Reference	----------	BH MSB-4 1.00-1.10	BH MSB-4 1.50-1.60	D1
Sample Matrix	----------	Soil	Soil	Soil
Date Sampled		18/02/2010	18/02/2010	18/02/2010
Date Extracted (TRH C6-C9 PT)		23/09/2010	23/09/2010	23/09/2010
Date Analysed (TRH C6-C9 PT)		23/09/2010	23/09/2010	23/09/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20
Date Extracted (TRH C10-C36)		23/09/2010	23/09/2010	23/09/2010
Date Analysed (TRH C10-C36)		23/09/2010	23/09/2010	23/09/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50

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PAHs in Soil Our Reference:	UNITS	SE81592-1	SE81592-3	SE81592-4	SE81592-8	SE81592-10
Your Reference	----------	BH MSB-2 0.20-0.30	BH MSB-2 1.00-1.10	BH MSB-3 0.20-0.30	BH MSB-4 0.20-0.30	BH MSB-4 1.00-1.10
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		18/02/2010	18/02/2010	18/02/2010	18/02/2010	18/02/2010
Date Extracted		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Date Analysed		25/09/2010	25/09/2010	25/09/2010	25/09/2010	25/09/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	0.13	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	0.21	<0.10
1-Methylnaphthalene	mg/kg	0.11	<0.10	<0.10	0.23	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	0.59	0.59
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	0.42	0.35
Phenanthrene	mg/kg	0.23	<0.10	0.59	2.8	3.8
Anthracene	mg/kg	<0.10	<0.10	0.15	0.52	0.72
Fluoranthene	mg/kg	0.22	<0.10	1.3	2.4	3.8
Pyrene	mg/kg	0.17	<0.10	1.3	1.8	3.2
Benzo[*a*]anthracene	mg/kg	0.11	<0.10	0.72	0.99	1.6
Chrysene	mg/kg	0.12	<0.10	0.59	0.70	1.1
Benzo[*b,k*]fluoranthene	mg/kg	<0.20	<0.20	1.0	1.3	2.2
Benzo[*a*]pyrene	mg/kg	0.06	<0.05	0.59	0.79	1.3
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	0.36	0.49	0.83
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	0.32	0.35	0.68
Total PAHs (sum)	mg/kg	<2.12	<1.7	<7.60	<13.98	<20.65
Nitrobenzene-d5	%	76	77	76	78	80
2-Fluorobiphenyl	%	78	73	75	79	78
p -Terphenyl-*d14*	%	71	104	82	76	78

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 2 D1 Soil 18/02/2010
Date Extracted		23/09/2010
Date Analysed		25/09/2010
Naphthalene	mg/kg	0.10
2-Methylnaphthalene	mg/kg	<0.10
1-Methylnaphthalene	mg/kg	<0.10
Acenaphthylene	mg/kg	0.57
Acenaphthene	mg/kg	<0.10
Fluorene	mg/kg	0.32
Phenanthrene	mg/kg	3.5
Anthracene	mg/kg	3.5
Fluoranthene	mg/kg	3.8
Pyrene	mg/kg	3.3
Benzo[*a*]anthracene	mg/kg	1.8
Chrysene	mg/kg	1.2
Benzo[*b,k*]fluoranthene	mg/kg	2.3
Benzo[*a*]pyrene	mg/kg	1.4
Indeno[*123-cd*]pyrene	mg/kg	0.90
Dibenzo[*ah*]anthracene	mg/kg	<0.10
Benzo[*ghi*]perylene	mg/kg	0.73
Total PAHs (sum)	mg/kg	<23.71
Nitrobenzene-d5	%	84
2-Fluorobiphenyl	%	82
p -Terphenyl-*d14*	%	81

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OC Pesticides in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010
Date Extracted		23/09/2010	23/09/2010
Date Analysed		23/09/2010	23/09/2010
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC (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	<0.1	<0.1
trans-Chlordane *(gamma)*	mg/kg	<0.1	<0.1
cis-Chlordane *(alpha)*	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	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
o,p-DDD	mg/kg	<0.1	<0.1
o,p-DDT	mg/kg	<0.1	<0.1
beta-Endosulfan	mg/kg	<0.1	<0.1
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
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	119	101

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OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010
Date Extracted		23/09/2010	23/09/2010
Date Analysed		24/09/2010	24/09/2010
Dichlorvos	mg/kg	<1	<1
Dimethoate	mg/kg	<1	<1
Diazinon	mg/kg	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	100	90
d14-p-Terphenyl (Surr)	%	90	88

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PCBs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010
Date Extracted		23/09/2010	23/09/2010
Date Analysed		23/09/2010	23/09/2010
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90
PCB_Surrogate 1	%	119	101

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-3 BH MSB-2 1.00-1.10 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010	SE81592-5 BH MSB-3 0.50-0.60 Soil 18/02/2010	SE81592-8 BH MSB-4 0.20-0.30 Soil 18/02/2010
Date Extracted (Metals)		27/09/2010	27/09/2010	27/09/2010	27/09/2010	27/09/2010
Date Analysed (Metals)		27/09/2010	27/09/2010	27/09/2010	27/09/2010	27/09/2010
Arsenic	mg/kg	<3	<3	<3	<3	<3
Cadmium	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	6.0	1.2	2.8	0.6	3.6
Copper	mg/kg	32	<0.5	19	2.5	17
Lead	mg/kg	25	1	45	6	18
Nickel	mg/kg	34	0.7	3.8	0.8	13
Zinc	mg/kg	39	<0.5	40	3.9	25

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-10 BH MSB-4 1.00-1.10 Soil 18/02/2010	SE81592-11 BH MSB-4 1.50-1.60 Soil 18/02/2010	SE81592-12 D1 Soil 18/02/2010
Date Extracted (Metals)		27/09/2010	27/09/2010	27/09/2010
Date Analysed (Metals)		27/09/2010	27/09/2010	27/09/2010
Arsenic	mg/kg	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3
Chromium	mg/kg	1.5	0.9	1.9
Copper	mg/kg	4.6	2.0	5.8
Lead	mg/kg	12	5	19
Nickel	mg/kg	1.4	0.5	1.7
Zinc	mg/kg	11	4.8	18

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-3 BH MSB-2 1.00-1.10 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010	SE81592-5 BH MSB-3 0.50-0.60 Soil 18/02/2010	SE81592-8 BH MSB-4 0.20-0.30 Soil 18/02/2010
Date Extracted (Mercury)		27/09/2010	27/09/2010	27/09/2010	27/09/2010	27/09/2010
Date Analysed (Mercury)		27/09/2010	27/09/2010	27/09/2010	27/09/2010	27/09/2010
Mercury	mg/kg	0.28	<0.05	0.18	<0.05	0.06

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-10 BH MSB-4 1.00-1.10 Soil 18/02/2010	SE81592-11 BH MSB-4 1.50-1.60 Soil 18/02/2010	SE81592-12 D1 Soil 18/02/2010
Date Extracted (Mercury)		27/09/2010	27/09/2010	27/09/2010
Date Analysed (Mercury)		27/09/2010	27/09/2010	27/09/2010
Mercury	mg/kg	<0.05	<0.05	<0.05

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Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010	SE81592-8 BH MSB-4 0.20-0.30 Soil 18/02/2010
Date Analysed		27/09/2010	27/09/2010	27/09/2010
Sample Description		40g Sand,soil,rocks	55g Sand,soil,rocks	47g Sand,soil,rocks
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected

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MBTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE81592-14 TS Water 18/02/2010	SE81592-15 TB Water 18/02/2010
Date Extracted (MBTEX)		24/09/2010	24/09/2010
Date Analysed (MBTEX)		24/09/2010	24/09/2010
Methyl-tert-butyl ether (MtBE)	µg/L	94%	<1
Benzene	µg/L	99%	<0.5
Toluene	µg/L	101%	<0.5
Ethylbenzene	µg/L	100%	<0.5
Total Xylenes	µg/L	94%	<1.5
Surrogate	%	89	107

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Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 BH MSB-2 0.20-0.30 Soil 18/02/2010	SE81592-3 BH MSB-2 1.00-1.10 Soil 18/02/2010	SE81592-4 BH MSB-3 0.20-0.30 Soil 18/02/2010	SE81592-5 BH MSB-3 0.50-0.60 Soil 18/02/2010	SE81592-8 BH MSB-4 0.20-0.30 Soil 18/02/2010
Date Analysed (moisture)		23/09/2010	23/09/2010	23/09/2010	23/09/2010	23/09/2010
Moisture	%	7	2	3	3	3

Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE81592-1 0 BH MSB-4 1.00-1.10 Soil 18/02/2010	SE81592-1 1 BH MSB-4 1.50-1.60 Soil 18/02/2010	SE81592-1 2 D1 Soil 18/02/2010
Date Analysed (moisture)		23/09/2010	23/09/2010	23/09/2010
Moisture	%	2	<1	1

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
AN420	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/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL MBTEX in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (MBTEX)				23/09/10	[NT]	[NT]	LCS	23/09/10
Date Analysed (MBTEX)				23/09/10	[NT]	[NT]	LCS	23/09/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	98%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	89%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	91%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	88%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	93%
BTEX Surrogate (%)	%	0	SEO-018	104	[NT]	[NT]	LCS	110%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				23/09/10	SE81592-3	23/09/2010 || 23/09/2010	LCS	23/09/10
Date Analysed (TRH C6-C9 PT)				23/09/10	SE81592-3	23/09/2010 || 23/09/2010	LCS	23/09/10
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE81592-3	<20 || [N/T]	LCS	103%
Date Extracted (TRH C10-C36)				23/09/10	SE81592-3	23/09/2010 || 23/09/2010	[NR]	[NR]
Date Analysed (TRH C10-C36)				23/09/10	SE81592-3	23/09/2010 || 23/09/2010	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE81592-3	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE81592-3	<50 || <50	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE81592-3	<50 || <50	[NR]	[NR]

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				23/09/10	SE81592-3	23/09/2010 || 23/09/2010	LCS	23/09/10
Date Analysed				25/09/10	SE81592-3	25/09/2010 || 25/09/2010	LCS	25/09/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	109%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	93%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	107%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	105%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	105%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	95%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	LCS	98%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Benzo[*b,k*]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE81592-3	<0.20 || <0.20	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.05	SEO-030	<0.05	SE81592-3	<0.05 || <0.05	LCS	101%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE81592-3	<0.10 || <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE81592-3	<1.7 || <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	86	SE81592-3	77 || 77 || RPD: 0	LCS	72%
2-Fluorobiphenyl	%	0	SEO-030	82	SE81592-3	73 || 74 || RPD: 1	LCS	70%
p -Terphenyl-*d*14	%	0	SEO-030	71	SE81592-3	104 || 99 || RPD: 5	LCS	76%

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QUALITY CONTROL OC Pesticides in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				23/09/2010	SE81592-1	23/09/2010 || 23/09/2010	SE81592-1	23/09/2010
Date Analysed				23/09/2010	SE81592-1	23/09/2010 || 23/09/2010	SE81592-1	23/09/2010
HCB	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	126%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	122%
beta-BHC	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
delta-BHC	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	103%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
o,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
alpha-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
trans-Chlordane *(gamma)*	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
cis-Chlordane *(alpha)*	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
trans-Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
p,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	127%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	127%
o,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
o,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
beta-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
p,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
p,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-1	95%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	0	SEO-005	123	SE81592-1	119 || 117 || RPD: 2	SE81592-1	119%

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QUALITY CONTROL OP Pesticides in Soil by GCMS	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				23/09/10	SE81592-1	23/09/2010 || 23/09/2010	SE81592-4	23/09/10
Date Analysed				24/09/10	SE81592-1	24/09/2010 || 24/09/2010	SE81592-4	24/09/10
Dichlorvos	mg/kg	1	AN420	<1	SE81592-1	<1 || <1	SE81592-4	128%
Dimethoate	mg/kg	1	AN420	<1	SE81592-1	<1 || <1	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	SE81592-1	<0.5 || <0.5	SE81592-4	106%
Fenitrothion	mg/kg	0.2	AN420	<0.2	SE81592-1	<0.2 || <0.2	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	SE81592-1	<0.20 || <0.20	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	SE81592-1	<0.2 || <0.2	SE81592-4	127%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	SE81592-1	<0.2 || <0.2	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	SE81592-1	<0.2 || <0.2	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	SE81592-1	<0.5 || <0.5	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	SE81592-1	<0.2 || <0.2	SE81592-4	123%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	SE81592-1	<0.20 || <0.20	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	96	SE81592-1	100 || 102 || RPD: 2	SE81592-4	102%
d14-p-Terphenyl (Surr)	%	0	AN420	90	SE81592-1	90 || 90 || RPD: 0	SE81592-4	88%

QUALITY CONTROL PCBs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				23/09/2010	SE81592-1	23/09/2010 || 23/09/2010	SE81592-4	23/09/2010
Date Analysed				23/09/2010	SE81592-1	23/09/2010 || 23/09/2010	SE81592-4	23/09/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	SE81592-4	121%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE81592-1	<0.1 || <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE81592-1	<0.90 || <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	123	SE81592-1	119 || 117 || RPD: 2	SE81592-4	109%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				27/09/2010	SE81592-1	27/09/2010 || 27/09/2010	SE81592-3	27/09/2010
Date Analysed (Metals)				27/09/2010	SE81592-1	27/09/2010 || 27/09/2010	SE81592-3	27/09/2010
Arsenic	mg/kg	3	SEM-010	<3	SE81592-1	<3 || <3	SE81592-3	109%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE81592-1	0.3 || 0.3 || RPD: 0	SE81592-3	106%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE81592-1	6.0 || 6.1 || RPD: 2	SE81592-3	109%
Copper	mg/kg	0.5	SEM-010	<0.5	SE81592-1	32 || 41 || RPD: 25	SE81592-3	110%
Lead	mg/kg	1	SEM-010	<1	SE81592-1	25 || 20 || RPD: 22	SE81592-3	106%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE81592-1	34 || 35 || RPD: 3	SE81592-3	109%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE81592-1	39 || 37 || RPD: 5	SE81592-3	109%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				27/09/2010	SE81592-1	27/09/2010 || 27/09/2010	SE81592-3	27/09/2010
Date Analysed (Mercury)				27/09/2010	SE81592-1	27/09/2010 || 27/09/2010	SE81592-3	27/09/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	SE81592-1	0.28 || 0.31 || RPD: 10	SE81592-3	99%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL MBTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (MBTEX)				24/09/10	[NT]	[NT]	LCS	24/09/10
Date Analysed (MBTEX)				24/09/10	[NT]	[NT]	LCS	24/09/10
Methyl-tert-butyl ether (MtBE)	µg/L	1	SEO-018	<1	[NT]	[NT]	LCS	122%
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	121%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	125%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	128%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	127%

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QUALITY CONTROL MBTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Surrogate	%	0	SEO-018	123	[NT]	[NT]	LCS	96%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		[NT]	[NT]	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		[NT]	[NT]	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	[NT]	[NT]	[NR]	[NR]
Date Extracted (TRH C10-C36)		[NT]	[NT]	SE81592-5	23/09/10
Date Analysed (TRH C10-C36)		[NT]	[NT]	SE81592-5	23/09/10
TRH C_{10} - C_{14}	mg/kg	[NT]	[NT]	SE81592-5	104%
TRH C_{15} - C_{28}	mg/kg	[NT]	[NT]	SE81592-5	91%
TRH C_{29} - C_{36}	mg/kg	[NT]	[NT]	SE81592-5	72%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Sampled by the client

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.

No respirable fibres detected using trace analysis technique.
Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
This document is issued by the Company subject to its General Conditions of Service (www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

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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Appendix C - Chain of Custody Documents