

APPENDIX B



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CERTIFICATE OF ANALYSIS 13759

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Andrew Roberts

Sample log in details:

Your Reference:

E21529FK, Orange

No. of samples:

17 Soils

Date samples received:

17/09/07

Date completed instructions received:

17/09/07

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:

24/09/07

Date of Preliminary Report:

Not Issued

Issue Date:

24/09/07

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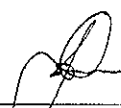
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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:


Jacinta Hurst
Operations Manager


Joshua Lim
Chemist

Envirolab Reference: 13759

Revision No: R 00



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vTPH & BTEX in Soil	UNITS	13759-1	13759-2	13759-3	13759-4	13759-5
Our Reference:	-----	BH1	BH2	BH3	BH3	BH4
Your Reference	-----					
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	20/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
vTPH C6 - C9	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	104	90	93	83	88

vTPH & BTEX in Soil	UNITS	13759-6	13759-7	13759-8	13759-9	13759-10
Our Reference:	-----	BH5	BH6	BH7	BH8	BH9
Your Reference	-----					
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	20/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
vTPH C6 - C9	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	87	91	93	77	105

vTPH & BTEX in Soil	UNITS	13759-11	13759-12	13759-13	13759-14	13759-15
Our Reference:	-----	BH10	BH11	BH12	BH13	BH13
Your Reference	-----					
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	20/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
vTPH C6 - C9	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m + p-Xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	96	106	109	92	79

vTPH & BTEX in Soil		
Our Reference:	UNITS	13759-17
Your Reference	-----	Dup1
Depth	-----	-
Date Sampled		17/09/2007
Type of sample		Soil
Date extracted	-	19/09/2007
Date analysed	-	20/09/2007
vTPH C6 - C9	mg/kg	<25
Benzene	mg/kg	<1.0
Toluene	mg/kg	<1.0
Ethylbenzene	mg/kg	<1.0
m + p-Xylene	mg/kg	<2.0
o-Xylene	mg/kg	<1.0
Surrogate aaa-Trifluorotoluene	%	78

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	13759-1	13759-2	13759-3	13759-4	13759-5
Your Reference	-----	BH1	BH2	BH3	BH3	BH4
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	83	81	78	84	79

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	13759-6	13759-7	13759-8	13759-9	13759-10
Your Reference	-----	BH5	BH6	BH7	BH8	BH9
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	74	78	76	81	79

sTPH in Soil (C10-C36)						
Our Reference:	UNITS	13759-11	13759-12	13759-13	13759-14	13759-15
Your Reference	-----	BH10	BH11	BH12	BH13	BH13
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
TPH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	75	77	74	76	77

sTPH in Soil (C10-C36)		
Our Reference:	UNITS	13759-17
Your Reference	-----	Dup1
Depth	-----	-
Date Sampled		17/09/2007
Type of sample		Soil
Date extracted	-	19/09/2007
Date analysed	-	19/09/2007
TPH C10 - C14	mg/kg	<50
TPH C15 - C28	mg/kg	<100
TPH C29 - C36	mg/kg	<100
Surrogate o-Terphenyl	%	78

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-1 BH1 0.4-0.5 17/09/2007 Soil	13759-2 BH2 0.3-0.5 17/09/2007 Soil	13759-3 BH3 0.2-0.5 17/09/2007 Soil	13759-4 BH3 0.7-0.8 17/09/2007 Soil	13759-5 BH4 0.2-0.5 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	100	92	90	96	90

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-6 BH5 0.2-0.5 17/09/2007 Soil	13759-7 BH6 0.2-0.3 17/09/2007 Soil	13759-8 BH7 0.2-0.5 17/09/2007 Soil	13759-9 BH8 0.2-0.5 17/09/2007 Soil	13759-10 BH9 0.2-0.5 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	96	98	91	97	100

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-11 BH10 0.2-0.5 17/09/2007 Soil	13759-12 BH11 0.2-0.5 17/09/2007 Soil	13759-13 BH12 0.2-0.5 17/09/2007 Soil	13759-14 BH13 0.2-0.5 17/09/2007 Soil	13759-15 BH13 0.8-1.0 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d ₁₄	%	97	94	99	93	103

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-17 Dup1 - 17/09/2007 Soil
Date extracted	-	19/09/2007
Date analysed	-	19/09/2007
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Surrogate p-Terphenyl-d14	%	93

Organochlorine Pesticides in soil						
Our Reference:	UNITS	13759-1	13759-2	13759-3	13759-4	13759-5
Your Reference	-----	BH1	BH2	BH3	BH3	BH4
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	103	103	104	107

Organochlorine Pesticides in soil						
Our Reference:	UNITS	13759-6	13759-7	13759-8	13759-9	13759-10
Your Reference	-----	BH5	BH6	BH7	BH8	BH9
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	108	108	104	114

Organochlorine Pesticides in soil						
Our Reference:	UNITS	13759-11	13759-12	13759-13	13759-14	13759-15
Your Reference	-----	BH10	BH11	BH12	BH13	BH13
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	20/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	111	109	109	112	116

Organochlorine Pesticides in soil	UNITS	13759-17
Our Reference:	-----	Dup1
Your Reference	-----	-
Depth		17/09/2007
Date Sampled		Soil
Type of sample		
Date extracted	-	19/09/2007
Date analysed	-	20/09/2007
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCLMX	%	109

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-1 BH1 0.4-0.5 17/09/2007 Soil	13759-2 BH2 0.3-0.5 17/09/2007 Soil	13759-3 BH3 0.2-0.5 17/09/2007 Soil	13759-4 BH3 0.7-0.8 17/09/2007 Soil	13759-5 BH4 0.2-0.5 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	103	103	104	107

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-6 BH5 0.2-0.5 17/09/2007 Soil	13759-7 BH6 0.2-0.3 17/09/2007 Soil	13759-8 BH7 0.2-0.5 17/09/2007 Soil	13759-9 BH8 0.2-0.5 17/09/2007 Soil	13759-10 BH9 0.2-0.5 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	108	108	104	114

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-11 BH10 0.2-0.5 17/09/2007 Soil	13759-12 BH11 0.2-0.5 17/09/2007 Soil	13759-13 BH12 0.2-0.5 17/09/2007 Soil	13759-14 BH13 0.2-0.5 17/09/2007 Soil	13759-15 BH13 0.8-1.0 17/09/2007 Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	20/09/2007	20/09/2007	20/09/2007	20/09/2007	20/09/2007
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	111	109	109	112	116

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	13759-17 Dup1 - 17/09/2007 Soil
Date extracted	-	19/09/2007
Date analysed	-	20/09/2007
Arochlor 1016	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	109

Client Reference: E21529FK, Orange

Acid Extractable metals in soil						
Our Reference:	UNITS	13759-1	13759-2	13759-3	13759-4	13759-5
Your Reference	-----	BH1	BH2	BH3	BH3	BH4
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Date analysed	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Arsenic	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	140	89	130	170	67
Copper	mg/kg	32	14	17	25	17
Lead	mg/kg	11	14	15	13	15
Mercury	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	110	19	30	39	15
Zinc	mg/kg	92	26	33	25	28

Acid Extractable metals in soil						
Our Reference:	UNITS	13759-6	13759-7	13759-8	13759-9	13759-10
Your Reference	-----	BH5	BH6	BH7	BH8	BH9
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Date analysed	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Arsenic	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	89	120	71	69	140
Copper	mg/kg	19	24	19	13	21
Lead	mg/kg	17	17	17	13	17
Mercury	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	20	26	19	11	19
Zinc	mg/kg	29	34	30	23	32

Acid Extractable metals in soil		13759-11	13759-12	13759-13	13759-14	13759-15
Our Reference:	UNITS	BH10	BH11	BH12	BH13	BH13
Your Reference	-----					
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Date analysed	-	21/09/2007	21/09/2007	21/09/2007	21/09/2007	21/09/2007
Arsenic	mg/kg	<4.0	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	72	87	78	56	170
Copper	mg/kg	18	25	16	12	19
Lead	mg/kg	16	21	14	12	15
Mercury	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	17	20	12	8.4	66
Zinc	mg/kg	26	32	22	16	37

Acid Extractable metals in soil		13759-16	13759-17
Our Reference:	UNITS	BH14	Dup1
Your Reference	-----		
Depth	-----	0.2-0.8	-
Date Sampled		17/09/2007	17/09/2007
Type of sample		Soil	Soil
Date digested	-	21/09/2007	21/09/2007
Date analysed	-	21/09/2007	21/09/2007
Arsenic	mg/kg	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0
Chromium	mg/kg	120	84
Copper	mg/kg	16	18
Lead	mg/kg	16	16
Mercury	mg/kg	<0.10	<0.10
Nickel	mg/kg	47	20
Zinc	mg/kg	24	30

Moisture						
Our Reference:	UNITS	13759-1	13759-2	13759-3	13759-4	13759-5
Your Reference	-----	BH1	BH2	BH3	BH3	BH4
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Moisture	%	22	17	15	18	16

Moisture						
Our Reference:	UNITS	13759-6	13759-7	13759-8	13759-9	13759-10
Your Reference	-----	BH5	BH6	BH7	BH8	BH9
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Moisture	%	19	17	17	15	16

Moisture						
Our Reference:	UNITS	13759-11	13759-12	13759-13	13759-14	13759-15
Your Reference	-----	BH10	BH11	BH12	BH13	BH13
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Moisture	%	17	17	14	16	22

Moisture			
Our Reference:	UNITS	13759-16	13759-17
Your Reference	-----	BH14	Dup1
Depth	-----	0.2-0.8	-
Date Sampled		17/09/2007	17/09/2007
Type of sample		Soil	Soil
Date prepared	-	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007
Moisture	%	24	18

Asbestos ID - soils						
Our Reference:	UNITS	13759-1	13759-2	13759-3	13759-5	13759-6
Your Reference	-----	BH1	BH2	BH3	BH4	BH5
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Sample Description	-	40g clay	40g clay	40g clay	40g clay	40g clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	13759-7	13759-8	13759-9	13759-10	13759-11
Your Reference	-----	BH6	BH7	BH8	BH9	BH10
Depth	-----	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Sample Description	-	40g clay	40g clay	40g clay	40g clay	40g clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	13759-12	13759-13	13759-14	13759-16	13759-17
Your Reference	-----	BH11	BH12	BH13	BH14	Dup1
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.8	-
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Sample Description	-	40g clay	40g clay	40g clay	40g clay	40g clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Method ID	Methodology Summary
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.14	Soil samples extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC-6	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
AS4964-2004	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques.

Client Reference: E21529FK, Orange

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Date analysed	-			20/9/07	13759-1	20/09/2007 20/09/2007	LCS-2	20/9/07%
vTPH C ₆ - C ₉	mg/kg	25	GC.16	<25	13759-1	<25 <25	LCS-2	114%
Benzene	mg/kg	1	GC.14	<1.0	13759-1	<1.0 <1.0	LCS-2	111%
Toluene	mg/kg	1	GC.14	<1.0	13759-1	<1.0 <1.0	LCS-2	119%
Ethylbenzene	mg/kg	1	GC.14	<1.0	13759-1	<1.0 <1.0	LCS-2	124%
m + p-Xylene	mg/kg	2	GC.14	<2.0	13759-1	<2.0 <2.0	LCS-2	124%
o-Xylene	mg/kg	1	GC.14	<1.0	13759-1	<1.0 <1.0	LCS-2	122%
Surrogate aaa-Trifluorotoluene	%		GC.14	75	13759-1	104 94 RPD: 10	LCS-2	104%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Date analysed	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
TPH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	13759-1	<50 <50	LCS-2	88%
TPH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	13759-1	<100 <100	LCS-2	69%
TPH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	13759-1	<100 <100	LCS-2	76%
Surrogate o-Terphenyl	%		GC.3	80	13759-1	83 80 RPD: 4	LCS-2	76%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Date analysed	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Naphthalene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	92%
Acenaphthylene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	94%
Phenanthrene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	102%
Anthracene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	103%
Pyrene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	107%
Benzo(a)anthracene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	LCS-2	103%
Benzo(b,k)fluoranthene	mg/kg	0.2	GC.12	<0.2	13759-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12	<0.05	13759-1	<0.05 <0.05	LCS-2	99%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%		GC.12	99	13759-1	100 94 RPD: 6	LCS-2	98%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base Duplicate %RPD	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil								
Date extracted	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Date analysed	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
HCB	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	113%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	122%
Heptachlor	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	110%
delta-BHC	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	108%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	111%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	125%
Dieldrin	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	119%
Endrin	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	117%
pp-DDD	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	119%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	LCS-2	130%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	114	13759-1	104 105 RPD: 1	LCS-2	113%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base Duplicate %RPD		
Date extracted	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Date analysed	-			19/9/07	13759-1	19/09/2007 19/09/2007	LCS-2	19/9/07%
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	LCS-2	111%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	13759-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-6	114	13759-1	104 105 RPD: 1	LCS-2	130%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base Duplicate %RPD		
Date digested	-			21/9/07	13759-1	21/09/2007 21/09/2007	LCS-1	21/9/07%
Date analysed	-			21/9/07	13759-1	21/09/2007 21/09/2007	LCS-1	21/9/07%
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4.0	13759-1	<4.0 <4.0	LCS-1	96%
Cadmium	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	<1.0 <1.0	LCS-1	96%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	140 140 RPD: 0	LCS-1	99%
Copper	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	32 33 RPD: 3	LCS-1	99%
Lead	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	11 13 RPD: 17	LCS-1	96%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.10	13759-1	<0.10 <0.10	LCS-1	93%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	110 86 RPD: 24	LCS-1	97%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1.0	13759-1	92 76 RPD: 19	LCS-1	97%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results
Moisture						Base Duplicate %RPD
Date prepared	-			19/09/07	13759-1	19/09/2007 19/09/2007
Date analysed	-			19/09/07	13759-1	19/09/2007 19/09/2007
Moisture	%	0.1	LAB.8	<0.10	13759-1	22 22 RPD: 0
QUALITY CONTROL vTPH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery	
Date extracted	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%	
Date analysed	-	13759-11	20/09/2007 20/09/2007	13759-2	19/9/07%	
vTPH C6 - C9	mg/kg	13759-11	<25 <25	13759-2	88%	
Benzene	mg/kg	13759-11	<1.0 <1.0	13759-2	101%	
Toluene	mg/kg	13759-11	<1.0 <1.0	13759-2	93%	
Ethylbenzene	mg/kg	13759-11	<1.0 <1.0	13759-2	89%	
m + p-Xylene	mg/kg	13759-11	<2.0 <2.0	13759-2	88%	
o-Xylene	mg/kg	13759-11	<1.0 <1.0	13759-2	89%	
Surrogate aaa-Trifluorotoluene	%	13759-11	96 91 RPD: 5	13759-2	92%	
QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery	
Date extracted	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%	
Date analysed	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%	
TPH C10 - C14	mg/kg	13759-11	<50 <50	13759-2	79%	
TPH C15 - C28	mg/kg	13759-11	<100 <100	13759-2	77%	
TPH C29 - C36	mg/kg	13759-11	<100 <100	13759-2	83%	
Surrogate o-Terphenyl	%	13759-11	75 77 RPD: 3	13759-2	80%	
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery	
Date extracted	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%	
Date analysed	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%	
Naphthalene	mg/kg	13759-11	<0.1 <0.1	13759-2	92%	
Acenaphthylene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]	
Acenaphthene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]	
Fluorene	mg/kg	13759-11	<0.1 <0.1	13759-2	93%	
Phenanthrene	mg/kg	13759-11	<0.1 <0.1	13759-2	98%	
Anthracene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]	
Fluoranthene	mg/kg	13759-11	<0.1 <0.1	13759-2	94%	
Pyrene	mg/kg	13759-11	<0.1 <0.1	13759-2	96%	
Benzo(a)anthracene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]	
Chrysene	mg/kg	13759-11	<0.1 <0.1	13759-2	108%	
Benzo(b,k)fluoranthene	mg/kg	13759-11	<0.2 <0.2	[NR]	[NR]	
Benzo(a)pyrene	mg/kg	13759-11	<0.05 <0.05	13759-2	93%	

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Indeno(1,2,3-c,d)pyrene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	13759-11	97 97 RPD: 0	13759-2	93%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%
Date analysed	-	13759-11	20/09/2007 20/09/2007	13759-2	19/9/07%
HCB	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	13759-11	<0.1 <0.1	13759-2	100%
gamma-BHC	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	13759-11	<0.1 <0.1	13759-2	108%
Heptachlor	mg/kg	13759-11	<0.1 <0.1	13759-2	97%
delta-BHC	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	13759-11	<0.1 <0.1	13759-2	95%
Heptachlor Epoxide	mg/kg	13759-11	<0.1 <0.1	13759-2	99%
gamma-Chlordane	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	13759-11	<0.1 <0.1	13759-2	112%
Dieldrin	mg/kg	13759-11	<0.1 <0.1	13759-2	106%
Endrin	mg/kg	13759-11	<0.1 <0.1	13759-2	101%
pp-DDD	mg/kg	13759-11	<0.1 <0.1	13759-2	108%
Endosulfan II	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	13759-11	<0.1 <0.1	13759-2	116%
Methoxychlor	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	13759-11	111 116 RPD: 4	13759-2	102%

QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	13759-11	19/09/2007 19/09/2007	13759-2	19/9/07%
Date analysed	-	13759-11	20/09/2007 20/09/2007	13759-2	19/9/07%
Arochlor 1016	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	13759-11	<0.1 <0.1	13759-2	124%
Arochlor 1260	mg/kg	13759-11	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	13759-11	111 116 RPD: 4	13759-2	140%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	13759-11	21/09/2007 21/09/2007	13759-2	21/9/07%
Date analysed	-	13759-11	21/09/2007 21/09/2007	13759-2	21/9/07%
Arsenic	mg/kg	13759-11	<4.0 <4.0	13759-2	79%
Cadmium	mg/kg	13759-11	<1.0 <1.0	13759-2	90%
Chromium	mg/kg	13759-11	72 76 RPD: 5	13759-2	94%
Copper	mg/kg	13759-11	18 19 RPD: 5	13759-2	100%
Lead	mg/kg	13759-11	16 16 RPD: 0	13759-2	91%
Mercury	mg/kg	13759-11	<0.10 <0.10	13759-2	90%
Nickel	mg/kg	13759-11	17 18 RPD: 6	13759-2	94%
Zinc	mg/kg	13759-11	26 26 RPD: 0	13759-2	92%
QUALITY CONTROL Moisture	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Date prepared	-	13759-11	19/09/2007 19/09/2007		
Date analysed	-	13759-11	19/09/2007 19/09/2007		
Moisture	%	13759-11	17 17 RPD: 0		

Report Comments:

Asbestos analysed by: Joshua Lim

INS: Insufficient sample for this test

RPD: Relative Percent Difference

NR: Not requested

NT: Not tested

NA: Test not required

<: Less than

PQL: Practical Quantitation Limit

LCS: Laboratory Control Sample

>: Greater than

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:

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

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



Envirolab Services Pty Ltd

ABN 37 112 535 645

54 Frenchs Rd Willoughby NSW 2068

ph 02 9958 5801 fax 02 9958 5803

email: tnotaras@envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC NSW 1670

ph: 02 9888 5000

Fax: 02 9888 5001

Attention: Andrew Roberts

Sample log in details:

Your reference:

E21529FK, Orange

Envirolab Reference:

13759

Date received:

17/09/07

Date results expected to be reported:

24/09/07

Samples received in appropriate condition for analysis:

YES

Turnaround time requested:

Standard

Temperature on receipt

Cool

Cooling Method:

Ice Pack

Completed documentation received:

YES

Comments:

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

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst

ph: 02 9958 5801 fax: 02 9958 5803

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

SAMPLE AND CHAIN OF CUSTODY FORM

TO: Envirolab Services Pty Ltd 54 Frenchs Road Willoughby NSW 2068 Phone: (02) 9958 5801 Fax: (02) 9958 5803 Attention: Aileen						EIS Job Number: E21529FK Date Results Required:						FROM: Environmental Investigation Services Rear 115 Wicks Road Macquarie Park NSW 2113 Phone: (02) 9888 5000 Fax: (02) 9888 5004 Contact:							
Project: Proposed medical precinct Location: Orange Sampler: Andrew Roberts												Tests Required				Sample Preservation: In esky on ice			
Date Sampled	Lab Ref:	Borehole/ Sample Number	Depth (m)	Sample Container	PID	Sample Description	Combo #5	Combo #5a	Combo #12	Combo #12a	Asbestos	Heavy metals	TPH/ BTEX	PAH	TCLP Prep +				
17/9/07	1	BH1	0.4-0.5	Glass jar + Asb Bag	0	Natural		X											
"	2	BH2	0.3-0.5	Glass jar + Asb Bag	0	"		X											
"	3	BH3	0.2-0.5	Glass jar + Asb Bag	0.5	"		X											
"	4	BH3	0.7-0.9	Glass jar + Asb Bag	0	"	X												
"	5	BH4	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	6	BH5	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	7	BH6	0.2-0.3	Glass jar + Asb Bag	0	"		X											
"	8	BH7	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	9	BH8	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	10	BH9	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	11	BH10	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	12	BH11	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	13	BH12	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	14	BH13	0.2-0.5	Glass jar + Asb Bag	0	"		X											
"	15	BH13	0.8-1.0	Glass jar + Asb Bag	0	"	X												
"	16	BH14	0.2-0.8	Glass jar + Asb Bag	0	"		X											
"	17	DUP1	-	Glass jar + Asb Bag	0	-		X											
"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
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"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
"				Glass jar + Asb Bag															
Remarks (comments/detection limits required):																			
Relinquished By: 		Date: 17/9/07 Time:		Received By: 		Relinquished By:		Date:		Received By:									

Envirolab Services
 54 Frenchs Rd
 Willoughby NSW 2068
 Ph: 9958 5801
 Job No: 13759
 Date received: 17/9/07
 Received by: AH
 Time: 10:45am
 Temp: Cool/Ambient
 Security: Intact/Broken/None



Envirolab Services Pty Ltd

ABN 37 112 535 645

54 Frenchs Rd Willoughby NSW 2068

ph 02 9958 5801 fax 02 9958 5803

email: tnotaras@envirolabservices.com.au

CERTIFICATE OF ANALYSIS 13759-A

Client:

Environmental Investigation Services

PO Box 976

North Ryde BC

NSW 1670

Attention: Andrew Roberts / Adrian Kingswell

Sample log in details:

Your Reference:

E21529FK, Orange

No. of samples:

Additional Testing on 16 Soils

Date samples received:

17/09/07

Date completed instructions received:

03/10/07

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:

10/10/07

Date of Preliminary Report:

Not Issued

Issue Date:

4/10/07

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

David Springer
Business Development & Quality Manager

Envirolab Reference: 13759-A

Revision No: R 00



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Organophosphorus Pesticides	UNITS	13759-A-1	13759-A-2	13759-A-3	13759-A-4	13759-A-5
Our Reference:	-----	BH1	BH2	BH3	BH3	BH4
Your Reference	-----					
Depth	-----	0.4-0.5	0.3-0.5	0.2-0.5	0.7-0.8	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	103	103	104	107

Organophosphorus Pesticides	UNITS	13759-A-6	13759-A-7	13759-A-8	13759-A-9	13759-A-10
Our Reference:	-----	BH5	BH6	BH7	BH8	BH9
Your Reference	-----					
Depth	-----	0.2-0.5	0.2-0.3	0.2-0.5	0.2-0.5	0.2-0.5
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	104	108	108	104	114

Organophosphorus Pesticides						
Our Reference:	UNITS	13759-A-11	13759-A-12	13759-A-13	13759-A-14	13759-A-15
Your Reference	-----	BH10	BH11	BH12	BH13	BH13
Depth	-----	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.8-1.0
Date Sampled		17/09/2007	17/09/2007	17/09/2007	17/09/2007	17/09/2007
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Date analysed	-	19/09/2007	19/09/2007	19/09/2007	19/09/2007	19/09/2007
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	111	109	109	112	116

Organophosphorus Pesticides		
Our Reference:	UNITS	13759-A-17
Your Reference	-----	Dup1
Depth	-----	-
Date Sampled		17/09/2007
Type of sample		Soil
Date extracted	-	19/09/2007
Date analysed	-	19/09/2007
Diazinon	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Ethion	mg/kg	<0.1
Surrogate TCLMX	%	109

Client Reference: E21529FK, Orange

Method ID	Methodology Summary
GC.8	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.

Envirolab Reference: 13759-A
Revision No: R 00



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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base Duplicate %RPD		
Date extracted	-			19/9/07	13759-A-1	19/09/2007 19/09/2007	LCS-1	19/9/07%
Date analysed	-			19/9/07	13759-A-1	19/09/2007 19/09/2007	LCS-1	19/9/07%
Diazinon	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	LCS-1	69%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	LCS-1	85%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	13759-A-1	<0.1 <0.1	LCS-1	80%
Surrogate TCLMX	%		GC.8	115	13759-A-1	104 105 RPD: 1	LCS-1	96%
QUALITY CONTROL	UNITS	Dup. Sm#		Duplicate				
Organophosphorus Pesticides				Base + Duplicate + %RPD				
Date extracted	-	13759-A-11		19/09/2007 19/09/2007				
Date analysed	-	13759-A-11		19/09/2007 19/09/2007				
Diazinon	mg/kg	13759-A-11		<0.1 <0.1				
Dimethoate	mg/kg	13759-A-11		<0.1 <0.1				
Chlorpyrifos-methyl	mg/kg	13759-A-11		<0.1 <0.1				
Ronnel	mg/kg	13759-A-11		<0.1 <0.1				
Chlorpyrifos	mg/kg	13759-A-11		<0.1 <0.1				
Fenitrothion	mg/kg	13759-A-11		<0.1 <0.1				
Bromophos-ethyl	mg/kg	13759-A-11		<0.1 <0.1				
Ethion	mg/kg	13759-A-11		<0.1 <0.1				
Surrogate TCLMX	%	13759-A-11		111 116 RPD: 4				

Report Comments:

Asbestos analysed by: Not applicable for this job

INS: Insufficient sample for this test

RPD: Relative Percent Difference

NR: Not requested

NT: Not tested

NA: Test not required

<: Less than

PQL: Practical Quantitation Limit

LCS: Laboratory Control Sample

>: Greater than

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:

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

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