

RECORDS FROM REMEDIAL CONTRACTOR (WREKIN)

APPENDIX E

IMPORTED MATERIAL TESTS

GEO-ENVIRONMENTAL INVESTIGATION
INTERPRETATIVE REPORT

Replacement
Mound.

Halcrow

5

Results of Chemical Testing

5.1

Analysis of Potentially Harmful Substances

The Contaminated Land Report (CLR) series of documents have been produced by the Department for Environment, Food and Rural Affairs (DEFRA), its predecessor departments, and more recently the Environment Agency, to provide regulators, developers, landowners and other interested parties with relevant, appropriate, authoritative and scientifically based information and advice on the assessment of risks arising from the presence of contamination in soils. The R&D Publication CLR7 gives an overview of the development of Soil Guideline Values and related material relevant to the assessment of risks to human health from land contamination. With CLR7, the Mean Value Test is described as the method for compared a small data set with the Soil Guideline Value (SGV). The 95th percentile of the data set is calculated to give a level of confidence that the population mean is less than the SGV. The 95th percentile has been calculated for each of the determinants and are presented in the summary tables which follow.

5.2

Soil Samples

Soil 'total' concentrations for a range of parameters were determined by means of laboratory testing. The results of these were assessed using the CLEA soil guideline values (SGV) where available and all were assessed for a residential end-use. Site Specific Assessment Criteria (SSAC) derived using the CLEA model or taken from other European literature such of the Waste Acceptance Criteria have been used to assess the data where UK SGV have not been published. The analytical data are presented in Appendix A and a summary table is shown below.

Determinant	Units	No. tests	SGV / SSAC	Mean Conc. Recorded	Max Conc. Recorded	95% UCL	No. above SGV / SSAC
Asbestos	Fibres	14	presence	none	none	-	0
Arsenic	mg/kg	39	20 (C)	12.8	34.0	14.2	1
Boron (water soluble)	mg/kg	39	-	1.5	3.5	1.6	-
Cadmium	mg/kg	39	8 (C)	<0.5	<0.5	<0.5	0
Chromium (total)	mg/kg	39	130 (C)	19.8	35.0	22.0	0
Chromium (VI)	mg/kg	19	-	1.8	33	5.33	-
Copper	mg/kg	39	2175 (S)	17.1	35.0	19.1	0
Lead	mg/kg	39	450 (C)	20.1	70.0	N/A	N/A
Log Lead value	-	39	2.65 (C)	1.18	1.85	1.33	0
Mercury	mg/kg	39	8 (C)	<0.2	0.3	0.2	0
Nickel	mg/kg	39	50 (C)	27.2	50.0	28.9	0

Key to SGV / SSAC

- (C) denotes Environment Agency CLEA soil guideline value for residential end use with plant uptake
- (S) denotes Site Specific Action Criteria (using CLEA Model)
- (W) denotes Environment Agency Interim Waste Acceptance Criteria for Inert Waste (RCN2 v4)
- (D) denotes DEFRA proposed guidance for *E. coli* colony forming unit (cfu) count per gram in conventionally treated sewage sludge applied to farmland (reference 6).

GEO-ENVIRONMENTAL INVESTIGATION
INTERPRETATIVE REPORT

Halcrow

Table 5.1 continued: Summary of total soil concentrations							
Determinant	Units	No. tests	SGV / GAC	Mean Conc. Recorded	Max. Conc. Recorded	95% UCL	No. above SGV / SSAC
Selenium	mg/kg	39	35 (C)	0.4	0.7	0.4	0
Zinc	mg/kg	39	16451 (S)	63.1	99.0	69.1	0
Cyanide (total)	mg/kg	40	660 (S)	1.1	3.2	1.2	0
Phenol	mg/kg	40	1206 (S)	<0.5	<0.5	<0.5	0
pH value	pH unit	39	-	8.1	8.8	8.2	-
Sulphate (total)	%	39	-	0.06	0.72	0.06	-
Sulphide (total)	mg/kg	40	-	10.3	14.4	10.6	-
Sulphur (free)	mg/kg	39	-	<100	<100	<100	-
TPH (C ₆ to C ₁₀)	mg/kg	19	-	35.5	50	40.6	-
TPH (C ₁₀ to C ₂₀)	mg/kg	19	-	35.5	50	40.6	-
TPH (C ₂₀ to C ₄₀)	mg/kg	19	-	44.2	98	52.9	-
TPH (C ₆ to C ₄₀)	mg/kg	19	500 (W)	44.2	98	52.9	0
Total Organic Carbon	%	4	3(W)	3.5	5.2	4.7	3
Total Coliforms	cfu / g	19	100,000 (D)	4800	19000	7790	-
16 USEPA PAH	mg/kg	36	1.241 (S)*	2.3	10.0	2.7	3
Naphthalene	mg/kg	36	1.434 (S)	0.5	1.2	0.6	0
Acenaphthylene	mg/kg	36	-	0.5	0.6	0.5	-
Acenaphthene	mg/kg	36	-	0.5	0.5	0.5	-
Fluorene	mg/kg	36	-	0.5	0.5	0.5	-
Phenanthrene	mg/kg	36	-	0.5	0.7	0.5	-
Anthracene	mg/kg	36	-	0.5	0.5	0.5	-
Fluoranthene	mg/kg	36	-	0.5	1.5	0.6	-
Pyrene	mg/kg	36	-	0.5	1.2	0.6	-
Benzo(a)anthracene	mg/kg	36	-	0.5	0.6	0.5	-
Chrysene	mg/kg	36	-	0.5	0.7	0.5	-
Benzo(b)fluoranthene	mg/kg	36	-	0.5	0.6	0.5	-
Benzo(k)fluoranthene	mg/kg	36	-	0.5	0.5	0.5	-
Benzo(a)pyrene	mg/kg	36	1.241 (S)	0.5	0.8	0.5	0
Indeno(1,2,3-cd)pyrene	mg/kg	36	-	0.5	0.7	0.5	-
Dibenzo(ah)anthracene	mg/kg	36	-	0.5	0.5	0.5	-
Benzo(ghi)perylene	mg/kg	36	-	0.5	0.9	0.5	-
Organochlorine pesticides (each of 16 compounds)	mg/kg	20	-	<0.05	<0.05	<0.05	-
Organophosphorous pesticides (each of 28 compounds)	mg/kg	20	-	<0.1	<0.1	<0.1	-
Triazine herbicides (each of 7 compounds)	mg/kg	20	-	<0.1	<0.1	<0.1	-

* For risk assessment, all PAH assumed to be present as Benzo(a)pyrene, the most recalcitrant form.

Key to SGV / SSAC

- (C) denotes Environment Agency CLEA soil guideline value for residential end use with plant uptake
- (S) denotes Site Specific Action Criteria (using CLEA Model)
- (W) denotes Environment Agency Interim Waste Acceptance Criteria for Inert Waste (RGN2 v4)
- (D) denotes DEFRA proposed guidance for *E. coli* colony forming unit (cfu) count per gram in conventionally treated sewage sludge applied to farmland (reference 6).

Login Batch No



Sample ID

Sample No

Depth

Matrix

		52304			
		AB72994	AB72995	AB72996	AB72997
		TP1	TP2	TP3	TP4
		SOIL	SOIL	SOIL	SOIL
SOP ↓	Determinand ↓	CAS No ↓	Units ↓	*	
2300	Cyanide (total)		mg kg ⁻¹	M	
2310	Cyanide (free)		mg kg ⁻¹	M	
2320	Sulfide	18496258	mg kg ⁻¹	N	
2610	Loss on ignition		%	N	
2120	Boron (hot water soluble)	7440428	mg kg ⁻¹	U	
2210	Sulfate (2:1 water soluble)	14808798	g l ⁻¹	M	
2430	Sulfate (total)	14808798	%	M	
2450	Arsenic	7440382	mg kg ⁻¹	M	
	Cadmium	7440439	mg kg ⁻¹	M	
	Chromium	7440473	mg kg ⁻¹	U	
	Copper	7440508	mg kg ⁻¹	M	
	Mercury	7439976	mg kg ⁻¹	M	
	Nickel	7440020	mg kg ⁻¹	M	
	Lead	7439921	mg kg ⁻¹	M	
	Selenium	7782492	mg kg ⁻¹	U	
	Zinc	7440666	mg kg ⁻¹	M	
2490	Chromium (hexavalent)	18540299	mg kg ⁻¹	N	
2670	Total Petroleum Hydrocarbons		mg kg ⁻¹	M	
2700	Naphthalene	91203	mg kg ⁻¹	M	
	Acenaphthylene	208968	mg kg ⁻¹	M	
	Acenaphthene	83329	mg kg ⁻¹	M	
	Fluorene	86737	mg kg ⁻¹	M	
	Phenanthrene	85018	mg kg ⁻¹	M	
	Anthracene	120127	mg kg ⁻¹	M	
	Fluoranthene	206440	mg kg ⁻¹	M	
	Pyrene	129000	mg kg ⁻¹	M	
	Benzo[a]anthracene	56553	mg kg ⁻¹	M	
	Chrysene	218019	mg kg ⁻¹	M	
	Benzo[b]fluoranthene	205992	mg kg ⁻¹	M	
	Benzo[k]fluoranthene	207089	mg kg ⁻¹	M	

All tests undertaken between 07-Feb-2007 and 13-Feb-2007

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Mick George (Haulage) Limited
Second Drove
Meadow Lane, St. Ives
Huntingdon, Cambridgeshire
PE27 4YO
FAO

LABORATORY TEST REPORT

Chemtest
Report Date
13 February 2007

Results of analysis of 4 samples
received 07 February 2007

Test Report

		52304			
		AB72994	AB72995	AB72996	AB72997
		TP1	TP2	TP3	TP4
		SOIL	SOIL	SOIL	SOIL
2700	Benzo[a]pyrene	0.3	0.3	0.2	0.3
	Dibenzo[a,h]anthracene	0.2	<0.1	0.1	<0.1
	Indeno[1,2,3-cd]pyrene	0.3	0.2	0.3	0.3
	Benzo[g,h,i]perylene	0.9	0.4	0.3	0.6
	Total (of 16) PAHs	3.7	2.9	2.7	4.3
2920	Phenols (total)	<0.3	<0.3	<0.3	<0.3
2010	pH	7.6	7.5	7.6	7.7

All tests undertaken between 07-Feb-2007 and 13-Feb-2007

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 2 of 2

Report sample ID range AB72994 to AB72997

Scientific Analysis Laboratories

Report Number: 98711-2
Date of Report: 12-Apr-2007
Client: Eurotest,
5-15 Sanders Road,
Finedon Road Industrial Estate,
Wellingborough,
Northants.
NN8 4NL
Client Contact: Mr Andrew Titcomb
Client Job Reference: WRE 03
Client Site Reference: St Neots Mobile Home Park
Date Job Received at SAL: 27-Mar-2007
Date Analysis Started: 12-Apr-2007
Date Analysis Completed: 12-Apr-2007

FILE C:	4129
Rounds:	SM PP TS
20 JUN 2007 File	
COPY TO:	
ACTION:	

The results reported relate to samples received at the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS or MCERTS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs

Key to symbols used in this report:
W: Analysis was performed at another SAL Laboratory
S: Analysis was sub-contracted
N: Analysis is not UKAS accredited
U: Analysis is UKAS accredited
M: Analysis is MCERTS accredited

Report checked
and authorised by:


Miss Claire Brown
Project Manager



1650

Index to caveats used in this report

Value	Description
AR	As Received
A40	Air Dried <40C

SAL Reference: 98711

Project Site: St Neots Mobile Home Park

Customer Reference: WRE 03

Soil
Metals (SE) Analysed as Soil

SAL Reference					98711 001	98711 002
Customer Sample Reference					Soil 2B Topsoil	Sand 2B Topsoil
Test Sample					A40	A40
Determinant	Technique	LOD	Units	Symbol		
Arsenic	ICP/OES (SIM) (Aqua Regia Extraction)	2.0	mg/kg	U	18	4.5
Boron (water-soluble)	ICP-OES (Sim)	1	mg/kg	N	<1	<1
Cadmium	ICP/OES (SIM) (Aqua Regia Extraction)	0.1	mg/kg	U	0.3	<0.1
Chromium	ICP-OES(Aqua Regia Extraction)	0.5	mg/kg	U	21	6.4
Copper	ICP-OES(Aqua Regia Extraction)	1.0	mg/kg	U	19	3.1
Lead	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	18	4.8
Mercury	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	<0.5	<0.5
Nickel	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	22	6.5
Selenium	ICP/OES (SIM) (Aqua Regia Extraction)	1	mg/kg	U	1	<1
Zinc	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	46	14

SAL Reference: 98711

Project Site: St Neots Mobile Home Park

Customer Reference: WRE 03

Soil Analysed as Soil

Total and Speciated USEPA16 PAH

SAL Reference					98711 001	98711 002
Customer Sample Reference					Soil 2B Topsoil	Sand 2B Topsoil
Test Sample					AR	AR
Determinant	Technique	LOD	Units	Symbol		
Naphthalene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Acenaphthylene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Acenaphthene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluorene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Phenanthrene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.05	<0.01
Chrysene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Benzo(b/k)Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Indeno(123-cd)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Dibenzo(ah)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.03	<0.01
Benzo(ghi)Perylene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Polyaromatic Hydrocarbons (Total)	GC/MS (SIR)	0.01	mg/kg	WU	0.60	<0.01

Scientific Analysis Laboratories

Report Number: 102467-1

Date of Report: 01-Jun-2007

Client: Eurotest,
5-15 Sanders Road,
Finedon Road Industrial Estate,
Wellingborough,
Northants.
NN8 4NL

Client Contact: Mr Andrew Titcomb
Client Job Reference: WRE 03

Date Job Received at SAL: 18-May-2007
Date Analysis Started: 18-May-2007
Date Analysis Completed: 01-Jun-2007

The results reported relate to samples received at the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS or MCERTS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs

Key to symbols used in this report:

W: Analysis was performed at another SAL Laboratory
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N: Analysis is not UKAS accredited
U: Analysis is UKAS accredited
M: Analysis is MCERTS accredited

Report checked
and authorised by:

Miss Claire Brown
Project Manager



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Index to caveats used in this report

Value	Description
AR	As Received
A40	Air Dried <40C

SAL Reference: 102467 Customer Reference: WRE 03 Soil Analysed as Soil Metals (SE)						
				SAL Reference	102467 001	102467 002
				Customer Sample Reference	Soil 3	Sand 3
				Test Sample	A40	A40
Determinant	Technique	LOD	Units	Symbol		
Arsenic	ICP/OES (SIM) (Aqua Regia Extraction)	2.0	mg/kg	U	17	5.3
Boron (water-soluble)	ICP-OES (Sim)	1	mg/kg	N	<1	<1
Cadmium	ICP/OES (SIM) (Aqua Regia Extraction)	0.1	mg/kg	U	0.2	<0.1
Chromium	ICP-OES(Aqua Regia Extraction)	0.5	mg/kg	U	17	5.2
Copper	ICP-OES(Aqua Regia Extraction)	1.0	mg/kg	U	17	2.7
Lead	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	16	4.1
Mercury	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	0.9	<0.5
Nickel	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	21	5.2
Selenium	ICP/OES (SIM) (Aqua Regia Extraction)	1	mg/kg	U	1	<1
Zinc	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	38	11

SAL Reference: 102467
Customer Reference: WRE 03

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE)

SAL Reference					102467 001	102467 002
Customer Sample Reference					Soil 3	Sand 3
Test Sample					AR	AR
Determinant	Technique	LOD	Units	Symbol		
Acenaphthene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Acenaphthylene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Anthracene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Benzo(a)Anthracene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Benzo(a)Pyrene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Chrysene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS	0.1	mg/kg	N	0.1	<0.1
Fluorene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS	0.1	mg/kg	U	<0.1	<0.1
Naphthalene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Phenanthrene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Pyrene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS	0.1	mg/kg	U	0.1	<0.1

SAL Reference: 98711						
Project Site: St Neots Mobile Home Park						
Customer Reference: WRE 03						
Soil		Analysed as Soil				
Metals (SE)						
SAL Reference					98711 001	98711 002
Customer Sample Reference					Soil 2B Topsoil	Sand 2B Topsoil
Test Sample					A40	A40
Determinant	Technique	LOD	Units	Symbol		
Arsenic	ICP/OES (SIM) (Aqua Regia Extraction)	2.0	mg/kg	U	18	4.5
Boron (water-soluble)	ICP-OES (Sim)	1	mg/kg	N	<1	<1
Cadmium	ICP/OES (SIM) (Aqua Regia Extraction)	0.1	mg/kg	U	0.3	<0.1
Chromium	ICP-OES(Aqua Regia Extraction)	0.5	mg/kg	U	21	6.4
Copper	ICP-OES(Aqua Regia Extraction)	1.0	mg/kg	U	19	3.1
Lead	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	18	4.8
Mercury	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	<0.5	<0.5
Nickel	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	22	6.5
Selenium	ICP/OES (SIM) (Aqua Regia Extraction)	1	mg/kg	U	1	<1
Zinc	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	46	14

SAL Reference: 98711 Project Site: St Neots Mobile Home Park Customer Reference: WRE 03 Soil Analysed as Soil Total and Speciated USEPA16 PAH						
SAL Reference				98711 001	98711 002	
Customer Sample Reference				Soil 2B Topsoil	Sand 2B Topsoil	
Test Sample				AR	AR	
Determinant	Technique	LOD	Units	Symbol		
Naphthalene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Acenaphthylene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Acenaphthene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluorene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Phenanthrene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.05	<0.01
Chrysene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Benzo(b/k)Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Indeno(123-cd)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Dibenzo(ah)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.03	<0.01
Benzo(ghi)Perylene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Polyaromatic Hydrocarbons (Total)	GC/MS (SIR)	0.01	mg/kg	WU	0.60	<0.01

SAL Reference: 98711 Project Site: St Neots Mobile Home Park Customer Reference: WRE 03						
Soil Metals (SE)		Analysed as Soil				
SAL Reference				98711 001	98711 002	
Customer Sample Reference				Soil 2B Topsoil	Sand 2B Topsoil	
Test Sample				A40	A40	
Determinant	Technique	LOD	Units	Symbol		
Arsenic	ICP/OES (SIM) (Aqua Regia Extraction)	2.0	mg/kg	U	18	4.5
Boron (water-soluble)	ICP-OES (Sim)	1	mg/kg	N	<1	<1
Cadmium	ICP/OES (SIM) (Aqua Regia Extraction)	0.1	mg/kg	U	0.3	<0.1
Chromium	ICP-OES(Aqua Regia Extraction)	0.5	mg/kg	U	21	6.4
Copper	ICP-OES(Aqua Regia Extraction)	1.0	mg/kg	U	19	3.1
Lead	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	18	4.8
Mercury	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	<0.5	<0.5
Nickel	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	22	6.5
Selenium	ICP/OES (SIM) (Aqua Regia Extraction)	1	mg/kg	U	1	<1
Zinc	ICP/OES (SIM) (Aqua Regia Extraction)	0.5	mg/kg	U	46	14

FILE C:	4129
Raunds:	GM SM TS
	25 APR 2007 File
COPY TO:	
ACTION:	

SAL Reference: 98711						
Project Site: St Neots Mobile Home Park						
Customer Reference: WRE 03						
Soil Analysed as Soil						
Total and Speciated USEPA16 PAH						
SAL Reference					98711 001	98711 002
Customer Sample Reference					Soil 2B Topsoil	Sand 2B Topsoil
Test Sample					AR	AR
Determinant	Technique	LOD	Units	Symbol		
Naphthalene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Acenaphthylene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Acenaphthene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluorene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Phenanthrene	GC/MS (SIR)	0.01	mg/kg	WU	0.02	<0.01
Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	<0.01	<0.01
Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.05	<0.01
Chrysene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Benzo(b/k)Fluoranthene	GC/MS (SIR)	0.01	mg/kg	WU	0.08	<0.01
Benzo(a)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Indeno(123-cd)Pyrene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Dibenzo(ah)Anthracene	GC/MS (SIR)	0.01	mg/kg	WU	0.03	<0.01
Benzo(ghi)Perylene	GC/MS (SIR)	0.01	mg/kg	WU	0.06	<0.01
Polyaromatic Hydrocarbons (Total)	GC/MS (SIR)	0.01	mg/kg	WU	0.60	<0.01