

APPENDIX C

Results of Chemical Laboratory Tests - Soils



2683



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone (01424) 718618
Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

F.A.O. Tim Gillbanks
Ground Investigation (South West) Limited
Unit 3, Custom House Court
Kenn Road, Clevedon
Bristol, BS21 6EX

Reporting Date: 20 August 2014

ANALYTICAL REPORT No. AR55674

Samples Received By: Courier
Sample Receipt Date: 05/08/14
Your Job No: 536
Your Order No: ---
Site Location: West Street, Havant
ELAB Sales Order: 55674
No Samples Received: 5
Date of Sampling: 04/08/14

This report was written by: Katie Baillie

Authorised By;

Steve Knight
Reporting Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



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Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards On Sea, East Sussex, TN38 9BY
Tel: 01424 718618 Fax: 01424 729911

ANALYTICAL REPORT No. AR55674

Location: West Street, Havant



Your Job No: 536
Your Order No: —
Reporting Date: 20/08/14

Soils

Characteristic	Silt loam 04/08/14 WS01	Silt loam 04/08/14 WS03	Silt loam 04/08/14 WS06	Sandy silt loam 04/08/14 WS07	Silt loam 04/08/14 WS10
Date Sampled	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14
TP/BH	WS01	WS03	WS06	WS07	WS10
Depth (m)	0.70	0.70	0.60	0.60	0.60
Our ref	28024	28027	28032	28033	28038
Stone Content (%)	20	47	40	36	41
Arsenic** (mg/kg)	19.9	13.1	10.7	20.6	5.3
Cadmium** (mg/kg)	0.5	<0.5	<0.5	<0.5	<0.5
Chromium** (mg/kg)	17	11	11	11	14
Lead** (mg/kg)	683	498	198	1258	177
Mercury** (mg/kg)	2.1	1.1	<0.5	<0.5	<0.5
West Street, Havant (mg/kg)	27	12	24	28	10
Copper** (mg/kg)	138	65	105	67	26
Zinc** (mg/kg)	180	97	88	127	88
Selenium** (mg/kg)	1.2	<0.5	1.0	0.7	<0.5
Hexavalent Chromium (mg/kg)	<2	<2	<2	<2	<2
Water Soluble Boron (mg/kg)	2.7	1.3	1.9	2.2	1.9
pH Value** (Units)	7.9	8.0	8.2	7.8	8.4
Water Soluble Sulphate (mg/l as SO ₄)	56.4	23.1	51.5	153.8	77.7
Total Sulphate (% as SO ₄)	0.05	<0.05	<0.05	0.08	<0.05
Total Potential Sulphate (% as SO ₄)	0.37	0.15	0.21	0.45	0.13
Total Cyanide** (mg/kg)	<1	<1	<1	<1	<1
Total Sulphur (% as S)	0.12	0.05	0.07	0.15	0.04
Soil Organic Matter** (%)	4.9	2.3	2.8	2.6	0.7
Total Monohydric Phenols*** (mg/kg)	<1	<1	<1	<1	<1

All results expressed on dry weight basis

** - MCERTS accredited test

* = UKAS accredited test

*** - Sum of Phenol, 2, 3, 5-Trimethylphenol, 2, 3, 4-Dimethylphenol, 3, 4-Dimethylphenol, Resorcinol/Catechol, o-Cresol, m, p-Cresol & Naphthol

Kate Bailey



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Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards On Sea, East Sussex, TN38 9BY

Tel: 01424 718618 Fax: 01424 729911

ANALYTICAL REPORT No. AR55674

Location: West Street, Havant



Your Job No: 536
Your Order No: —
Reporting Date: 20/08/14

Soils	Characteristic	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam
	Date Sampled	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14
	TP/BH	WS01	WS03	WS06	WS07	WS10
	Depth (m)	0.70	0.70	0.60	0.60	0.60
	Our ref	28024	28027	28032	28033	28038
Naphthalene**	(mg/kg)	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene**	(mg/kg)	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene**	(mg/kg)	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene**	(mg/kg)	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene**	(mg/kg)	<0.5	0.9	<0.5	1.1	<0.5
West Street, Havant	(mg/kg)	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene**	(mg/kg)	<0.5	1.6	0.7	4.4	<0.5
Pyrene**	(mg/kg)	<0.5	1.2	0.5	3.7	<0.5
Benz(a)anthracene**	(mg/kg)	<0.5	1.0	<0.5	2.9	<0.5
Chrysene**	(mg/kg)	<0.5	1.3	0.6	2.9	<0.5
Benzo(b)fluoranthene**	(mg/kg)	<0.5	0.9	0.5	1.8	<0.5
Benzo(k)fluoranthene**	(mg/kg)	<0.5	1.5	<0.5	2.6	<0.5
Benzo(a)pyrene**	(mg/kg)	<0.5	1.0	<0.5	2.3	<0.5
Indeno(123-cd)pyrene**	(mg/kg)	<0.5	0.8	0.7	1.6	<0.5
Dibenz(ah)anthracene**	(mg/kg)	<0.5	<0.5	<0.5	0.6	<0.5
Benzo(ghi)perylene**	(mg/kg)	<0.5	1.1	1.0	1.9	<0.5
Total PAH(16)**	(mg/kg)	<0.5	11.4	4.0	25.8	<0.5

All results expressed on dry weight basis

** - MCERTS accredited test

Kate Bullen



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Tel: 01424 718618 Fax: 01424 729911
ANALYTICAL REPORT No. AR55674
Location: West Street, Havant



Your Job No: 536
Your Order No: —
Reporting Date: 20/08/14

F.A.O. Tim Gillbanks
Ground Investigation (South West) Limited
Unit 3, Custom House Court
Kenn Road, Clevedon
Bristol, BS21 6EX

TPH CWG - Soil

Characteristic	Date Sampled	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam
TP/BH	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14
Depth (m)	WS01	WS03	WS06	WS07	WS10	WS10	WS10
Our ref	28024	28027	28032	28033	28038	28038	28038
Aromatic							
>EC ₅ -EC ₇	(mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>EC ₇ -EC ₈	(mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>EC ₈ -EC ₁₀	(mg/kg)	<0.1	<0.1	<0.1	<0.1	0.1	0.1
>EC ₁₀ -EC ₁₂	(mg/kg)	<0.1	<0.1	<0.1	<0.1	0.2	0.2
West Street, Havant	(mg/kg)	<0.1	<0.1	<0.1	<0.1	0.1	0.3
>EC ₁₂ -EC ₂₁	(mg/kg)	0.1	0.3	<0.1	0.7	0.2	0.2
>EC ₂₁ -EC ₃₅	(mg/kg)	<0.1	0.9	<0.1	3.1	<0.1	<0.1
Aliphatic							
>EC ₅ -EC ₆	(mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>EC ₆ -EC ₈	(mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>EC ₈ -EC ₁₀	(mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
>EC ₁₀ -EC ₁₂	(mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
>EC ₁₂ -EC ₁₆	(mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
>EC ₁₆ -EC ₂₁	(mg/kg)	0.2	0.2	0.2	0.2	<0.1	<0.1
>EC ₂₁ -EC ₃₅	(mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (C ₅ - C ₃₅)	(mg/kg)	0.3	1.4	0.2	4.1	0.7	0.7
Benzene**							
Benzene**	(µg/kg)	<10	<10	<10	<10	<10	<10
Toluene**	(µg/kg)	<10	<10	<10	<10	<10	<10
Ethyl Benzene**	(µg/kg)	<10	<10	<10	<10	<10	<10
Xylenes**	(µg/kg)	<10	<10	<10	<10	<10	<10
MTBE	(µg/kg)	<10	<10	<10	<10	<10	<10

All results expressed on dry weight basis
Kaiser Baile



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ANALYTICAL REPORT No. AR55674

Location: West Street, Havant

F.A.O. Tim Gillbanks
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Bristol, BS21 6EX

Your Job No: 536
Your Order No: —
Reporting Date: 20/08/14

Asbestos Identification

Sample ref:	WS01
Depth (m)	0.70
Our ref:	28024
#Description of Sample Matrix:	Silt loam
Result	No asbestos identified

Sample ref:	West Street, Havant	WS02
Depth (m)		0.60
Our ref:		28026
#Description of Sample Matrix:		Clay loam
Result		No asbestos identified

Sample ref:	WS03
Depth (m)	0.70
Our ref:	28027
#Description of Sample Matrix:	Silt loam
Result	No asbestos identified

Sample ref:	WS04
Depth (m)	0.50
Our ref:	28028
#Description of Sample Matrix:	Sandy clay loam
Result	No asbestos identified

Sample ref:	WS05
Depth (m)	0.50
Our ref:	28029
#Description of Sample Matrix:	Clay loam
Result	No asbestos identified

Sample ref:	WS05
Depth (m)	2.00
Our ref:	28031
#Description of Sample Matrix:	Chalky loam
Result	No asbestos identified

* = UKAS accredited

Analytical result only applies to the sample as submitted by the client

Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client

Kate Bailey



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ANALYTICAL REPORT No. AR55674

Location: West Street, Havant

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Bristol, BS21 6EX

Your Job No: 536
Your Order No: —
Reporting Date: 20/08/14

Asbestos Identification

Sample ref: WS06
Depth (m) 0.60
Our ref: 28032
#Description of Sample Matrix: Silt loam
Result No asbestos identified

Sample ref: WS07
Depth (m) 0.60
Our ref: 28033
#Description of Sample Matrix: Sandy silt loam
Result No asbestos identified

Sample ref: WS08
Depth (m) 0.50
Our ref: 28034
#Description of Sample Matrix: Sandy clay loam
Result No asbestos identified

Sample ref: WS09
Depth (m) 0.60
Our ref: 28036
#Description of Sample Matrix: Clay loam
Result No asbestos identified

Sample ref: WS10
Depth (m) 0.60
Our ref: 28038
#Description of Sample Matrix: Silt loam
Result No asbestos identified

Sample ref: WS11
Depth (m) 0.60
Our ref: 28039
#Description of Sample Matrix: Clay loam
Result No asbestos identified

*= UKAS accredited

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Kate Barile



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Tel: 01424 718618 Fax: 01424 729911

ANALYTICAL REPORT No. AR55674

Location: West Street, Havant

F.A.O. Tim Gillbanks
Ground Investigation (South West) Limited
Unit 3, Custom House Court
Kenn Road, Clevedon
Bristol, BS21 6EX

Your Ref No: 536

Reporting Date: 20/08/14

VOC ANALYSIS

Soils

Characteristic	Silt loam	Silt loam	Silt loam	Sandy silt loam	Silt loam
Date Sampled	04/08/14	04/08/14	04/08/14	04/08/14	04/08/14
TP/BH	WS01	WS03	WS06	WS07	WS10
Depth (m)	0.70	0.70	0.60	0.60	0.60
Our ref	28024	28027	28032	28033	28038
Benzene**	(µg/kg)	<10	<10	<10	<10
Toluene**	(µg/kg)	<10	<10	<10	<10
Ethyl Benzene**	(µg/kg)	<10	<10	<10	<10
mpXylene**	(µg/kg)	<10	<10	<10	<10
oXylene**	(µg/kg)	<10	<10	<10	<10
1, 2-Dichloroethene-cis**	st Street, Havant	<10	<10	<10	<10
1, 1-Dichloroethane**	(µg/kg)	<10	<10	<10	<10
Chloroform**	(µg/kg)	<10	<10	<10	<10
Carbontetrachloride**	(µg/kg)	<10	<10	<10	<10
1, 1, 1-Trichloroethane**	(µg/kg)	<10	<10	<10	<10
Trichloroethylene**	(µg/kg)	<10	<10	<10	<10
Tetrachloroethylene**	(µg/kg)	<10	<10	<10	<10
1, 1, 1, 2-Tetrachloroethane**	(µg/kg)	<10	<10	<10	<10
1, 1, 2, 2-Tetrachloroethane**	(µg/kg)	<10	<10	<10	<10
Chlorobenzene**	(µg/kg)	<10	<10	<10	<10
Bromobenzene**	(µg/kg)	<10	<10	<10	<10
Bromodichloromethane**	(µg/kg)	<10	<10	<10	<10
Methylethylbenzene**	(µg/kg)	<10	<10	<10	<10
1, 1-Dichloro-1-propene**	(µg/kg)	<10	<10	<10	<10
1, 2-Dichloroethene-trans	(µg/kg)	<10	<10	<10	<10
2, 2-Dichloropropane	(µg/kg)	<10	<10	<10	<10
Bromochloromethane	(µg/kg)	<10	<10	<10	<10
1, 2-Dichloroethane	(µg/kg)	<10	<10	<10	<10
Dibromomethane**	(µg/kg)	<10	<10	<10	<10
1, 2-Dichloropropane**	(µg/kg)	<10	<10	<10	<10
1, 3-Dichloro1propene**	(µg/kg)	<10	<10	<10	<10
1, 3-Dichloro1propene trans	(µg/kg)	<10	<10	<10	<10
1, 1, 2-Trichloroethane	(µg/kg)	<10	<10	<10	<10
Dibromochloromethane	(µg/kg)	<10	<10	<10	<10
1, 3-Dichloropropane	(µg/kg)	<10	<10	<10	<10
Dibromoethane**	(µg/kg)	<10	<10	<10	<10
Styrene	(µg/kg)	<10	<10	<10	<10
Propylbenzene	(µg/kg)	<10	<10	<10	<10
2-Chlorotoluene	(µg/kg)	<10	<10	<10	<10
1, 2, 4-Trimethylbenzene	(µg/kg)	<10	<10	<10	<10
4-Chlorotoluene	(µg/kg)	<10	<10	<10	<10
t-Butylbenzene	(µg/kg)	<10	<10	<10	<10
Trimethylbenzene	(µg/kg)	<10	<10	<10	<10
1-Methylpropylbenzene	(µg/kg)	<10	<10	<10	<10
o-Cymene	(µg/kg)	<10	<10	<10	<10
1, 4-Dichlorobenzene	(µg/kg)	<10	<10	<10	<10
Butylbenzene	(µg/kg)	<10	<10	<10	<10
1, 2-Dibromo-3-chloropropane	(µg/kg)	<10	<10	<10	<10
Hexachlorobutadiene	(µg/kg)	<10	<10	<10	<10
1, 2, 3-Trichlorobenzene	(µg/kg)	<10	<10	<10	<10
1, 2, 4-Trichlorobenzene	(µg/kg)	<10	<10	<10	<10
1, 3-Dichlorobenzene	(µg/kg)	<10	<10	<10	<10
1, 2-Dichlorobenzene	(µg/kg)	<10	<10	<10	<10
Bromoform	(µg/kg)	<10	<10	<10	<10

** - MCERTS accredited test

FAB



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THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number AR55674
Your Job No: 536
Sample Receipt Date: 05/08/14
Reporting Date: 20/08/14

Registered: 05/08/14
Prepared: 06/08/14
Analysis complete: 20/08/14

TEST METHOD SUMMARY

PARAMETER	Analysis Undertaken on	West Street, Havant	Method Number	Technique
Arsenic**	Air dried sample	19/08/14	118	ICPMS
Cadmium**	Air dried sample	19/08/14	118	ICPMS
Chromium**	Air dried sample	19/08/14	118	ICPMS
Lead**	Air dried sample	19/08/14	118	ICPMS
Mercury**	Air dried sample	19/08/14	118	ICPMS
West Street, Havant	Air dried sample	19/08/14	118	ICPMS
Copper**	Air dried sample	19/08/14	118	ICPMS
Zinc**	Air dried sample	19/08/14	118	ICPMS
Selenium**	Air dried sample	19/08/14	118	ICPMS
Water Soluble Boron	Air dried sample	15/08/14	202	Colorimetry
Hexavalent Chromium	As submitted sample	06/08/14	110	Colorimetry
pH Value**	Air dried sample	14/08/14	113	BRE SD1
Total Sulphate	Air dried sample	18/08/14	208	Colorimetry
Water Soluble Sulphate	Air dried sample	18/08/14	209	Colorimetry
Total Potential Sulphate	Air dried sample	11/08/14	116	BRE SD1
Total Cyanide**	As submitted sample	07/08/14	204	Colorimetry
Total Sulphur	Air dried sample	11/08/14	116	BRE SD1
Soil Organic Matter*	Air dried sample	15/08/14	111	Titration
Total Monohydric Phenols	As submitted sample	07/08/14	121	HPLC
Speciated PAH**	As submitted sample	07/08/14	133	Gas Chromatography
Carbon Banding (TPH)	As submitted sample	07/08/14	214	Gas chromatography
BTEX**	As submitted sample	08/08/14	154	GCMS
MTBE	As submitted sample	08/08/14	154	GCMS
Asbestos*	As submitted sample	19/08/14	179	See Note
VOC**	As submitted sample	08/08/14	181	GCMS

Asbestos analysis qualitative only

Note:- Documented In-house procedure based on HSG 248 2005

* = UKAS Accredited test

** - MCERTS Accredited test

Determinands not marked with * or ** are not accredited

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

All results have been expressed on a dry weight basis and where appropriate have been corrected for moisture and stone content accordingly

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F.A.O. Richard Cowill
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Unit 3, Custom House Court
Kenn Road, Clevedon
Bristol, BS21 6EX

Reporting Date: 16 September 2014

ANALYTICAL REPORT No. AR55941

Samples Received By: Laboratory Courier
Sample Receipt Date: 09/09/14
Your Job No: ----
Your Order No: ---
Site Location: West Street, Havant
No Samples Received: 2
Date of Sampling: 04/08/14

This report was written by: N. Williams

Authorised By;

John Wilson
Project & Business Development
Manager (CChem, MRSC)

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Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	ANALYTICAL REPORT No. AR55941				Page 2 of 5		
				CLIENT:	Ground Investigation (South West) Limited		
Project Name:	West Street, Havant						
Lab Reference	29954				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	04/08/14				Inert Waste Landfill	Stable Non- reactive HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID	WAC1						
Depth	—						
Solid Waste Analysis							
TOC (%)	7.8				3%	5%	6%
Loss on Ignition (%)**	7.8				—	—	10%
BTEX (mg/kg)**	<0.01				6	—	—
Sum of PCBs (mg/kg)**	<0.01				1	—	—
Mineral Oil (mg/kg)**	<2				500	—	—
Total PAH (mg/kg)**	5.9				100	—	—
pH (Units)**	8.1				—	—	—
Acid Neutralisation Capacity (mol/kg)	<0.1				—	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic*	0.013	0.013		0.1	0.5	2	25
Barium*	0.017	0.009		<0.1	20	100	300
Cadmium*	<0.001	<0.001		<0.01	0.04	1	5
Chromium*	<0.005	<0.005		<0.1	0.5	10	70
Copper*	0.011	0.009		<0.1	2	50	100
Mercury*	<0.0001	<0.0001		<0.001	0.01	0.2	2
Molybdenum*	0.022	0.010		0.1	0.5	10	30
Nickel*	<0.005	<0.005		<0.1	0.4	10	40
Lead*	<0.005	0.005		<0.1	0.5	10	50
Antimony	0.008	<0.005		<0.01	0.06	0.7	5
Selenium*	0.005	<0.005		<0.01	0.1	0.5	7
Zinc*	0.006	0.006		<0.1	4	50	200
Chloride	9	<5		105	800	15000	25000
Fluoride	<1	<1		<1	10	150	500
Sulphate	84	7		167	1000	20000	50000
TDS	370	220		2387	4000	60000	100000
Phenol Index	<0.5	<0.5		<0.5	1	-	-
DOC	16.6	15.3		155	500	800	1000
Leach Test Information							
pH *	8.2	8.0					
EC*	427	269					
Sample Mass (kg)	0.211						
Dry Matter (%)	83						
Moisture (%)	21						
Stage 1							
Volume Eluate L2 (litres)	0.314						
Filtered Eluate VE1 (litres)	0.218						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation							

* = UKAS accredited

** = MCERTS accredited test



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Waste Acceptance Criteria ANALYTICAL RESULTS									
Report No:		ANALYTICAL REPORT No. AR55941					Page 3 of 5		
							CLIENT:		Ground Investigation (South West) Limited
Project Name:		West Street, Havant							
Lab Reference		29955					Landfill Waste Acceptance Criteria		
Sampling Date		—					Limits		
Sample ID		WAC2					Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth		—							
Solid Waste Analysis									
TOC (%)		0.2				3%	5%	6%	
Loss on Ignition (%)**		1.4				—	—	10%	
BTEX (mg/kg)**		<0.01				6	—	—	
Sum of PCBs (mg/kg)**		<0.01				1	—	—	
Mineral Oil (mg/kg)**		<2				500	—	—	
Total PAH (mg/kg)**		<0.5				100	—	—	
pH (Units)**		8.5				—	—	—	
Acid Neutralisation Capacity (mol/kg)		<0.1				—	To be evaluated	To be evaluated	
Eluate Analysis		2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test			
		mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
Arsenic*		<0.005	<0.005		<0.1	0.5	2	25	
Barium*		0.006	<0.005		<0.1	20	100	300	
Cadmium*		<0.001	<0.001		<0.01	0.04	1	5	
Chromium*		<0.005	<0.005		<0.1	0.5	10	70	
Copper*		<0.005	<0.005		<0.1	2	50	100	
Mercury*		<0.0001	<0.0001		<0.001	0.01	0.2	2	
Molybdenum*		<0.005	<0.005		<0.1	0.5	10	30	
Nickel*		<0.005	<0.005		<0.1	0.4	10	40	
Lead*		<0.005	<0.005		<0.1	0.5	10	50	
Antimony		<0.005	<0.005		<0.01	0.06	0.7	5	
Selenium*		0.010	0.005		0.06	0.1	0.5	7	
Zinc*		<0.005	<0.005		<0.1	4	50	200	
Chloride*		<5	<5		<1	800	15000	25000	
Fluoride*		<1	<1		<1	10	150	500	
Sulphate*		3	1		11	1000	20000	50000	
TDS		180	160		1624	4000	60000	100000	
Phenol Index		<0.5	<0.5		<0.5	1	-	-	
DOC		18.8	14.5		150	500	800	1000	
Leach Test Information									
pH *		8.3	8.0						
EC*		171	155						
Sample Mass (kg)		0.198							
Dry Matter (%)		89							
Moisture (%)		13							
Stage 1									
Volume Eluate L2 (litres)		0.327							
Filtered Eluate VE1 (litres)		0.212							
Results are expressed on a dry weight basis, after correction for moisture content where applicable									
Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation									

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THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number 55941
Your Job No: ---
Sample Receipt Date: 09/09/14
Reporting Date: 16/09/14

Registered: 09/09/14
Prepared: 10/09/14
Analysis complete: 16/09/14

TEST METHOD SUMMARY

PARAMETER	Undertaken on	Date Tested	Method Number	Technique
pH Value**	Air dried sample	11/09/14	113	Electrometric
Total Organic Carbon	Air dried sample	16/09/14	210	Automated IR Absorption
Loss on Ignition**	Air dried sample	11/09/14	129	Gravimetric
Neutralization Capacity to pH 7	Air dried sample	11/09/14	-	EA
Benzene**	As submitted sample	11/09/14	181	GCMS
Toluene**	As submitted sample	11/09/14	181	GCMS
Ethyl Benzene**	As submitted sample	11/09/14	181	GCMS
Xylenes**	As submitted sample	11/09/14	181	GCMS
Mineral Oil**	As submitted sample	12/09/14	117	GCFID
PCB 28**	Air dried sample	12/09/14	120	GCMS
PCB 52**	Air dried sample	12/09/14	120	GCMS
PCB 101**	Air dried sample	12/09/14	120	GCMS
PCB 118**	Air dried sample	12/09/14	120	GCMS
PCB 138**	Air dried sample	12/09/14	120	GCMS
PCB 153**	Air dried sample	12/09/14	120	GCMS
PCB 180**	Air dried sample	12/09/14	120	GCMS
Speciated PAH**	As submitted sample	12/09/14	133	GCFID

The analysts' guide for sampling, analysis and clearance procedures

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Determinands not marked with a * or ** are not accredited

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



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THE ENVIRONMENTAL LABORATORY LTD

LEACHATE SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number 55941
Your Job No: ---
Sample Receipt Date: 09/09/14
Reporting Date: 16/09/14

Registered: 09/09/14
Prepared: 10/09/14
Analysis complete: 16/09/14

LEACHATE TEST METHOD SUMMARY

PARAMETER	Method Number	Technique
Arsenic*	101	ICPMS
Cadmium*	101	ICPMS
Chromium*	101	ICPMS
Lead*	101	ICPMS
Nickel*	101	ICPMS
Copper*	101	ICPMS
Zinc*	101	ICPMS
Mercury*	101	ICPMS
Selenium*	101	ICPMS
Antimony	101	ICPMS
Barium*	101	ICPMS
Molybdenum*	101	ICPMS
pH Value*	113	Electrometric
Electrical Conductivity*	136	Probe
Dissolved Organic Carbon	102	TOC analyser
Chloride	131	Ion Chromatography
Fluoride	131	Ion Chromatography
Sulphate	131	Ion Chromatography
Total Dissolved Solids	144	Gravimetric
Phenol Index	121	HPLC

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