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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 14-00513

Issue: 1

Date of Issue: 26/09/2014

Contact: Richard Hamilton

Customer Details: Enzygo - Cromhall
The Granary
Woodend Lane
Cromhall
Gloucestershire

Quotation No: Q14-00007

Order No: CRM734

Customer Reference: CRM.413.106

Date Received: 11/09/2014

Date Approved: 26/09/2014

Details: Wrexham

Approved by:

John Wilson, Operations Manager

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



Sample Summary

Report No.: 14-00513

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
3320	WS1 0.20	04/09/2014	11/09/2014	Sandy silty loam	g
3321	WS2 0.20	03/09/2014	11/09/2014	Sandy silty loam	f
3322	WS3 0.15	04/09/2014	11/09/2014	Sandy silty loam	
3323	WS4 0.20	03/09/2014	11/09/2014	Sandy silty loam	f
3324	WS5 0.20	03/09/2014	11/09/2014	Sandy silty loam	f
3325	WS6 0.25	03/09/2014	11/09/2014	Sandy silty loam	f
3326	WS7 0.30	03/09/2014	11/09/2014	Sandy silty loam	fg
3327	WS8 0.30	03/09/2014	11/09/2014	Sandy silty loam	f
3328	TP1 0.20	04/09/2014	11/09/2014	Sandy silty loam	g



Results Summary

Report No.: 14-00513

ELAB Reference	3320	3321	3322	3323	3324	3325
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS1	WS2	WS3	WS4	WS5	WS6
Sample Depth (m)	0.20	0.20	0.15	0.20	0.20	0.25
Sampling Date	04/09/2014	03/09/2014	04/09/2014	03/09/2014	03/09/2014	03/09/2014

Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	7.0	7.0	9.5	5.8	6.6	4.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.7	< 0.5
Chromium	M	mg/kg	5	14.6	16.1	17.8	12.3	11.5	8.8
Copper	M	mg/kg	5	15.8	17.3	19.3	16.4	15.7	11.5
Lead	M	mg/kg	5	44.6	51.6	55.6	56.1	65.6	36.2
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	8.5	8.6	10.6	8.6	9.0	8.2
Selenium	M	mg/kg	1	0.8	0.7	0.7	1.5	1.4	0.7
Zinc	M	mg/kg	45	63.4	76.1	88.2	65.6	64.8	< 45.0
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Miscellaneous									
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t	n/t	n/t	n/t	n/t
Loss Of Ignition (450°C)	N	%	0.01	4.3	n/t	n/t	n/t	n/t	n/t
Moisture Content	N	%	0.1	14.6	10.7	13.8	13.4	12.3	8.0
pH	M	units	0.1	6.4	n/t	n/t	n/t	n/t	n/t
Stones Content	N	%	0.1	4.6	6.5	4.0	13.0	20.0	35.0
Total Organic Carbon	N	%	0.01	1.4	1.9	2.4	1.7	1.7	1.1

Results Summary

Report No.: 14-00513

ELAB Reference	3320	3321	3322	3323	3324	3325
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS1	WS2	WS3	WS4	WS5	WS6
Sample Depth (m)	0.20	0.20	0.15	0.20	0.20	0.25
Sampling Date	04/09/2014	03/09/2014	04/09/2014	03/09/2014	03/09/2014	03/09/2014

Determinand	Codes	Units	LOD						
Organics									
>C8-C10 BCB Soil	N	mg/kg	1	< 1.0	f < 1.0	< 1.0	f < 1.0	f < 1.0	f < 1.0
>C10-C12 BCB Soil	N	mg/kg	1	< 1.0	f < 1.0	< 1.0	f < 1.0	f < 1.0	f < 1.0
>C12-C16 BCB Soil	N	mg/kg	1	< 1.0	f < 1.0	< 1.0	f < 1.0	f < 1.0	f < 1.0
>C16-C21 BCB Soil	N	mg/kg	1	< 1.0	f < 1.0	< 1.0	f < 1.0	f < 1.0	f < 1.0
>C21-C35 BCB Soil	N	mg/kg	1	3.6	f 1.9	< 1.0	f 4.2	f 9.5	f < 1.0
>C35-C40 BCB Soil	N	mg/kg	1	2.3	f 1.4	1.4	f 1.7	f 4.2	f < 1.0
Total (>C8-C40) BCB Soil	N	mg/kg	1	5.9	f 3.3	1.4	f 6.0	f 13.6	f < 1.0
Phenols									
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
Trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	< 5	< 5	< 5	< 5
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5
Pyrene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (a) anthracene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5
Benzo (b) fluoranthene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo (k) fluoranthene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	0.6
Benzo (a) pyrene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibenzo(a,h)anthracene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(ghi)perylene	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8
Total PAH(16) Speciated	M	mg/kg	2	< 2	< 2	< 2	< 2	4	4
Total PAH (Including Coronene)	N	mg/kg	2.1	< 2	n/t	n/t	n/t	n/t	n/t
BTEX									
Total BTEX	M	mg/kg	0.01	g < 0.01	n/t	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons									
Mineral Oil	U	mg/kg	1	4	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)									
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t	n/t	n/t	n/t	n/t



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Results Summary

Report No.: 14-00513

ELAB Reference	3326	3327	3328
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS7	WS8	TP1
Sample Depth (m)	0.30	0.30	0.20
Sampling Date	03/09/2014	03/09/2014	04/09/2014

Determinand	Codes	Units	LOD			
Metals						
Arsenic	M	mg/kg	1	4.0	7.6	n/t
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Chromium	M	mg/kg	5	10.9	13.3	n/t
Copper	M	mg/kg	5	9.3	18.6	n/t
Lead	M	mg/kg	5	21.3	93.2	n/t
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Nickel	M	mg/kg	5	10.1	10.1	n/t
Selenium	M	mg/kg	1	0.5	1.4	n/t
Zinc	M	mg/kg	45	< 45.0	65.7	n/t
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	n/t
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	n/t
Miscellaneous						
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t	< 0.1
Loss Of Ignition (450°C)	N	%	0.01	2.2	n/t	4.7
Moisture Content	N	%	0.1	5.5	13.1	n/t
pH	M	units	0.1	6.1	n/t	6.2
Stones Content	N	%	0.1	41.8	15.0	n/t
Total Organic Carbon	N	%	0.01	1.0	2.5	1.9

Results Summary

Report No.: 14-00513

ELAB Reference	3326	3327	3328
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	WS7	WS8	TP1
Sample Depth (m)	0.30	0.30	0.20
Sampling Date	03/09/2014	03/09/2014	04/09/2014

Determinand	Codes	Units	LOD			
Organics						
>C8-C10 BCB Soil	N	mg/kg	1	f < 1.0	f < 1.0	n/t
>C10-C12 BCB Soil	N	mg/kg	1	f < 1.0	f < 1.0	n/t
>C12-C16 BCB Soil	N	mg/kg	1	f 1.7	f < 1.0	n/t
>C16-C21 BCB Soil	N	mg/kg	1	f 15.1	f < 1.0	n/t
>C21-C35 BCB Soil	N	mg/kg	1	f 334	f < 1.0	n/t
>C35-C40 BCB Soil	N	mg/kg	1	f 98.7	f 1.4	n/t
Total (>C8-C40) BCB Soil	N	mg/kg	1	f 450	f 1.4	n/t
Phenols						
Phenol	M	mg/kg	1	< 1	< 1	n/t
M,P-Cresol	N	mg/kg	1	< 1	< 1	n/t
O-Cresol	N	mg/kg	1	< 1	< 1	n/t
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	n/t
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	n/t
Trimethylphenol	M	mg/kg	1	< 1	< 1	n/t
Total Monohydric Phenols	N	mg/kg	5	< 5	< 5	n/t
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Acenaphthylene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Acenaphthene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Fluorene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Phenanthrene	M	mg/kg	0.5	1.1	< 0.5	n/t
Anthracene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Fluoranthene	M	mg/kg	0.5	2.0	< 0.5	n/t
Pyrene	M	mg/kg	0.5	1.7	< 0.5	n/t
Benzo (a) anthracene	M	mg/kg	0.5	0.9	< 0.5	n/t
Chrysene	M	mg/kg	0.5	1.9	< 0.5	n/t
Benzo (b) fluoranthene	M	mg/kg	0.5	0.8	< 0.5	n/t
Benzo (k) fluoranthene	M	mg/kg	0.5	1.7	< 0.5	n/t
Benzo (a) pyrene	M	mg/kg	0.5	1.0	< 0.5	n/t
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.5	1.2	< 0.5	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.5	< 0.5	< 0.5	n/t
Benzo(ghi)perylene	M	mg/kg	0.5	1.8	< 0.5	n/t
Total PAH(16) Speciated	M	mg/kg	2	15	< 2	n/t
Total PAH (Including Coronene)	N	mg/kg	2.1	17	n/t	< 2
BTEX						
Total BTEX	M	mg/kg	0.01	fg < 0.01	n/t	g < 0.01
Total Petroleum Hydrocarbons						
Mineral Oil	U	mg/kg	1	f 283	n/t	3
PCB (ICES 7 congeners)						
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t	< 0.03

Results Summary

Report No.: 14-00513

WAC Analysis

Elab Ref:	3328					Landfill Waste Acceptance Criteria Limits		
Sample Date:	04/09/2014					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP1							
Depth:	0.2							
Site:	Wrexham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.9	3	5	6
Loss on Ignition		M	%		4.7	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		3	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			6.2	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			2:1	8:1	10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
			mg/l	mg/l	mg/kg			
Arsenic		N	0.027	0.007	0.10	0.5	2	25
Barium		N	0.134	0.025	0.39	20	100	300
Cadmium		N	< 0.001	< 0.001	< 0.01	0.04	1	5
Chromium		N	0.035	0.006	0.10	0.5	10	70
Copper		N	0.127	0.036	0.48	2	50	100
Mercury		N	< 0.005	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.020	0.006	0.07	0.5	10	30
Nickel		N	0.032	0.008	0.11	0.4	10	40
Lead		N	0.149	0.015	0.32	0.5	10	50
Antimony		N	0.010	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	0.005	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.157	0.042	0.57	4	50	200
Chloride		N	< 5	< 5	< 50	800	15000	25000
Fluoride		N	< 1	< 1	< 10	10	150	500
Sulphate		N	3.000	3.000	28.20	1000	20000	50000
Total Dissolved Solids		N	< 10	< 10	< 100	4000	60000	100000
Phenol Index		N	< 0.01	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	34.300	10.900	139.00	500	800	1000

Leach Test Information

Eluent Volume (ml)		N	225	1150				
pH		N	7.8	7.5				
Conductivity (uS/cm)		N	83	41				
Temperature (°C)		N	20	20				

Solid Information

Dry mass of test portion (g)			176					
Moisture (%)			16.7					

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

Results Summary

Report No.: 14-00513

WAC Analysis

Elab Ref:	3326					Landfill Waste Acceptance Criteria Limits		
Sample Date:	03/09/2014					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	WS7							
Depth:	0.3							
Site:	Wrexham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.0	3	5	6
Loss on Ignition		M	%		2.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		283	500	--	--
Total (of 17) PAHs		N	mg/kg		17.0	100	--	--
pH		M			6.1	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			2:1	8:1	10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
			mg/l	mg/l	mg/kg			
Arsenic		N	0.015	0.020	0.19	0.5	2	25
Barium		N	0.164	0.061	0.77	20	100	300
Cadmium		N	< 0.001	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.005	< 0.05	0.5	10	70
Copper		N	0.052	0.045	0.46	2	50	100
Mercury		N	< 0.005	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.052	0.021	0.26	0.5	10	30
Nickel		N	0.019	0.011	0.12	0.4	10	40
Lead		N	0.008	0.015	0.14	0.5	10	50
Antimony		N	0.014	0.005	0.07	0.06	0.7	5
Selenium		N	0.006	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.045	0.036	0.38	4	50	200
Chloride		N	< 5	< 5	< 50	800	15000	25000
Fluoride		N	< 1	< 1	< 10	10	150	500
Sulphate		N	62.000	6.000	150.00	1000	20000	50000
Total Dissolved Solids		N	230.000	110.000	1290.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	29.800	13.600	162.00	500	800	1000

Leach Test Information

Eluent Volume (ml)		N	280	1140				
pH		N	8	7.8				
Conductivity (uS/cm)		N	330	126				
Temperature (°C)		N	20	20				

Solid Information

Dry mass of test portion (g)			176					
Moisture (%)			7.5					

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

Results Summary

Report No.: 14-00513

WAC Analysis

Elab Ref:	3320					Landfill Waste Acceptance Criteria Limits		
Sample Date:	04/09/2014					Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	WS1							
Depth:	0.2							
Site:	Wrexham							
Determinand		Code	Units					
Total Organic Carbon		N	%		1.4	3	5	6
Loss on Ignition		M	%		4.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC		M	mg/kg		4	500	--	--
Total (of 17) PAHs		N	mg/kg		< 2	100	--	--
pH		M			6.4	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate

Eluate Analysis

			2:1	8:1	10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
			mg/l	mg/l	mg/kg			
Arsenic		N	0.035	0.013	0.15	0.5	2	25
Barium		N	0.124	0.039	0.50	20	100	300
Cadmium		N	< 0.001	< 0.001	< 0.01	0.04	1	5
Chromium		N	0.024	0.008	0.10	0.5	10	70
Copper		N	0.082	0.044	0.49	2	50	100
Mercury		N	< 0.005	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.027	0.015	0.16	0.5	10	30
Nickel		N	0.014	0.008	0.09	0.4	10	40
Lead		N	0.183	0.027	0.47	0.5	10	50
Antimony		N	0.010	0.005	0.06	0.06	0.7	5
Selenium		N	< 0.005	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	0.090	0.045	0.50	4	50	200
Chloride		N	< 5	< 5	< 50	800	15000	25000
Fluoride		N	< 1	< 1	< 10	10	150	500
Sulphate		N	4.000	3.000	35.50	1000	20000	50000
Total Dissolved Solids		N	150.000	< 10	193.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	36.500	11.900	151.00	500	800	1000

Leach Test Information

Eluent Volume (ml)		N	226	1270				
pH		N	8.1	7.6				
Conductivity (uS/cm)		N	149	76				
Temperature (°C)		N	20	20				

Solid Information

Dry mass of test portion (g)			176					
Moisture (%)			14.4					

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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Results Summary

Report No.: 14-00513

Asbestos Qualitative Results

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.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Result
3320	0.20	WS1	Sandy silty loam	No asbestos detected
3321	0.20	WS2	Sandy silty loam	No asbestos detected
3322	0.15	WS3	Sandy silty loam	No asbestos detected
3323	0.20	WS4	Sandy silty loam	No asbestos detected
3324	0.20	WS5	Sandy silty loam	No asbestos detected
3325	0.25	WS6	Sandy silty loam	No asbestos detected
3326	0.30	WS7	Sandy silty loam	No asbestos detected
3327	0.30	WS8	Sandy silty loam	No asbestos detected

Method Summary

Report No.: 14-00513

Parameter	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil				
Hexavalent chromium	As submitted sample	15/09/2014	110	Colorimetry
Aqua regia extractable metals	Air dried sample	16/09/2014	118	ICPMS
Phenols in solids	As submitted sample	15/09/2014	121	HPLC
Polyaromatic hydrocarbons (GC-FID)	As submitted sample	15/09/2014	133	GC-FID
Total cyanide	As submitted sample	16/09/2014	204	Colorimetry
Basic carbon banding in soil	As submitted sample	15/09/2014	218	GC-FID
Asbestos identification	As submitted sample	25/09/2014	PMAN	Microscopy
Leachate				
Arsenic*		25/09/2014	101	ICPMS
Cadmium*		25/09/2014	101	ICPMS
Chromium*		25/09/2014	101	ICPMS
Lead*		25/09/2014	101	ICPMS
Nickel*		25/09/2014	101	ICPMS
Copper*		25/09/2014	101	ICPMS
Zinc*		25/09/2014	101	ICPMS
Mercury*		25/09/2014	101	ICPMS
Selenium*		25/09/2014	101	ICPMS
Antimony		25/09/2014	101	ICPMS
Barium*		25/09/2014	101	ICPMS
Molybdenum*		25/09/2014	101	ICPMS
pH Value*		25/09/2014	113	Electrometric
Electrical Conductivity*		25/09/2014	136	Probe
Dissolved Organic Carbon		25/09/2014	102	TOC analyser
Chloride*		25/09/2014	131	Ion Chromatography
Fluoride*		25/09/2014	131	Ion Chromatography
Sulphate*		25/09/2014	131	Ion Chromatography
Total Dissolved Solids		25/09/2014	144	Gravimetric
Phenol index		25/09/2014	121	HPLC
WAC Solids analysis				
pH Value**	Air dried sample	25/09/2014	113	Electrometric
Total Organic Carbon	Air dried sample	25/09/2014	210	IR
Loss on Ignition**	Air dried sample	25/09/2014	129	Gravimetric
Acid Neutralization Capacity to pH 7	Air dried sample	25/09/2014	NEN 737	Electrometric
Total BTEX**	As submitted sample	25/09/2014	181	GCMS
Mineral Oil**	As submitted sample	25/09/2014	117	GCFID
Total PCBs (7 congeners)	Air dried sample	25/09/2014	120	GCMS
Total PAH (17)**	As submitted sample	25/09/2014	133	GCFID



Report Information

Report No.: 14-00513

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
U/S	Unsuitable sample
n/e	not evaluated
<	means "less than"
>	means "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage