



Final Report

Report Number: 15-21160 Issue-1

Initial Date of Issue: 21-Sep-2015

Client: Soil Investigation (Eastern) Ltd

Client Address: Felford Cottage
Back Lane
Ford End
Chelmsford
Essex
CM3 1LG

Contact(s): Sandra Brown

Project: BG2578 - Arc Car Wash, South Shields, NE34

Quotation No.: **Date Received:** 14-Sep-2015

Order No.: **Date Instructed:** 11-Sep-2015

No. of Samples: 1

Turnaround: (Wkdays) 7 **Results Due Date:** 21-Sep-2015

Date Approved: 21-Sep-2015

Approved By:



Details: Robert Monk, Technical Development
Chemist

Results - 2 Stage WAC

Project: BG2578 - Arc Car Wash, South Shields, NE34

Chemtest Job No: 15-21160 Chemtest Sample ID: 191189 Sample Ref: WAC Sample ID: BH1 Top Depth(m): 1.0 Bottom Depth(m): Sampling Date: 02-Sep-2015							Landfill Waste Acceptance Criteria Limits		
							Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous	Hazardous Waste Landfill
Determinand	SOP	Accred.	Units						
Total Organic Carbon	2625	U	%				1.3	3	5
Loss on Ignition	2610	U	%				5.9	--	10
Total BTEX	2760	U	mg/kg				< 0.010	6	--
Total PCBs (7 congeners)	2815	U	mg/kg				< 0.10	1	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg				20	500	--
Total (of 17) PAHs	2700	N	mg/kg				16	100	--
pH	2010	U					8.2	--	>6
Acid Neutralisation Capacity	2015	N	mol/kg				0.045	--	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
Arsenic	1450	U	0.009	0.0076	< 0.050	0.078	0.5	2	25
Barium	1450	U	0.027	0.02	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	0.00016	0.00033	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0075	0.0042	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.089	0.013	0.17	0.24	0.5	10	30
Nickel	1450	U	0.0032	0.0014	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	0.0019	0.0016	< 0.010	0.016	0.5	10	50
Antimony	1450	U	0.035	0.023	0.068	0.25	0.06	0.7	5
Selenium	1450	U	0.0044	0.003	< 0.010	0.032	0.1	0.5	7
Zinc	1450	U	0.024	0.0054	< 0.50	< 0.50	4	50	200
Chloride	1220	U	140	15	270	320	800	15000	25000
Fluoride	1220	U	0.57	0.5	1.1	5.1	10	150	500
Sulphate	1220	U	1500	300	2900	4600	1000	20000	50000
Total Dissolved Solids	1020	N	1400	460	2700	5900	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	16	10	< 50	110	500	800	1000

Soild Information	
Dry mass of test portion/kg	0.175
Moisture (%)	19

Leachate Test Information	
Leachant volume 1st extract/l	0.308
Leachant volume 2nd extract/l	1.4
Eluant recovered from 1st extract/l	0.242

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "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

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk