

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/05926
Issue Number: 1
Date: 28 July, 2020

Client: Energised Environments Ltd
7 Dundas Street
Edinburgh
EH3 6QG

Project Manager: Sarah Tullie
Project Name: Hoy
Project Ref: EE 1675
Order No: EE131644
Date Samples Received: 21/07/20
Date Instructions Received: 21/07/20
Date Analysis Completed: 28/07/20

Prepared by:



Danielle Brierley
Client Manager

Approved by:



Sophie France
Client Service Manager

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Lab Sample ID	20/05926/1	20/05926/2	20/05926/3	20/05926/4	20/05926/5			Units	Limit of Detection	Method ref
Client Sample No	T358	T359	T469	T470	T453					
Client Sample ID	T358-6	T359-4	T469-7	T470-3	T453-5					
Depth to Top	0.50	1.00	0.50	1.00	0.50					
Depth To Bottom										
Date Sampled	16-Jul-20	16-Jul-20	16-Jul-20	16-Jul-20	16-Jul-20					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	6AE	6AE	6AE	6AE	6AE					
% Moisture at <40C _A	81.5	90.0	84.4	87.2	87.0					
% Natural Moisture Content (NMC) at 40C _A	439	898	540	683	669			% w/w	0.1	A-T-044
% Moisture at 105C _A	76.3	78.5	84.0	72.5	73.3			% w/w	0.1	A-T-044
% Natural Moisture Content (NMC) at 105C _A	322	365	524	263	274			% w/w	0.1	A-T-044
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	0.7			% w/w	0.1	A-T-044
Total Organic Carbon _D ^{M#}	47.8	46.5	48.2	41.6	42.7			% w/w	0.03	A-T-032s
Total Carbon _D	49.1	47.8	50.7	43.6	47.6			% w/w	0.1	A-T-032s
Density (soil) _A	0.6	0.9	0.9	0.8	0.8			g/ml	0.1	Gravimetry - AR

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

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Client: Energised Environments Ltd, 7 Dundas Street, Edinburgh, EH3 6QG

Project No: 20/05926

Project: Hoy
Clients Project No: EE 1675

Date Received: 21/07/2020 (am)

Cool Box Temperatures (°C): 17.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.