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Analytical Report Number : 19-28037

Project / Site name:	Trowbridge	**Samples received on:**	04/02/2019
Your job number:	LDQ2048	**Samples instructed on:**	06/02/2019
Your order number:	POR023736	**Analysis completed by:**	18/02/2019
Report Issue Number:	1	**Report issued on:**	18/02/2019
Samples Analysed:	5 soil samples		

Signed:

Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Your Order No: POR023736

Lab Sample Number				1150459	1150460	1150461	1150462	1150463
Sample Reference				DS01	DS02	DS04	DS05	DS06
Sample Number				2	4	3	2	5
Depth (m)				0.30-0.50	1.90-2.10	2.00-2.30	0.90-1.00	1.00-1.30
Date Sampled				31/01/2019	31/01/2019	31/01/2019	31/01/2019	31/01/2019
Time Taken				1224	1248	1431	1504	1551
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	26
Moisture Content	%	N/A	NONE	9.5	9.5	18	8.1	8.3
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0	0.63	2.0
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.1	8.2	7.9	8.3	8.2
Total Sulphate as SO_4	%	0.005	MCERTS	0.077	0.076	0.238	0.073	0.072
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.012	0.023	0.25	0.0074	0.019
Total Sulphur	%	0.005	MCERTS	0.036	0.040	0.093	0.038	0.036

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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1150459	DS01	2	0.30-0.50	Light brown clay and sand with gravel.
1150460	DS02	4	1.90-2.10	Brown clay and sand with gravel and vegetation.
1150461	DS04	3	2.00-2.30	Light grey clay.
1150462	DS05	2	0.90-1.00	Light brown clay and sand with gravel.
1150463	DS06	5	1.00-1.30	Light brown clay and sand with gravel and stones.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L038	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.