

Chemtech Environmental Limited

SOILS

Lab number			104346-1	104346-2	104346-3	104346-4	104346-5
Sample id			TP02	TP05	TP09	TP12	TP16
Depth (m)			1.00	2.40	1.10	3.20	2.00
Date sampled			16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Test	Method	Units					
pH	CE004 ^M	units	8.8	8.9	8.7	8.9	8.7
Magnesium (2:1 water soluble)	CE061	mg/l Mg	13	8.4	6.4	9.2	7.0
Chloride (2:1 water soluble)	CE049 ^U	mg/l Cl	3.1	12	5.7	5.4	2.8
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	4.8	<1	<1	<1	<1
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	35	32	24	23	23
Sulphate (total)	CE062 ^M	mg/kg SO ₄	258	207	685	404	393
Sulphate (total)	CE062 ^M	% w/w SO ₄	0.03	0.02	0.07	0.04	0.04
Sulphur (total)	CE119	mg/kg S	172	465	176	564	410
Sulphur (total)	CE119	% w/w S	0.02	0.05	0.02	0.06	0.04

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Magnesium (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry		1	mg/l Mg
CE049	Chloride (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l Cl
CE049	Nitrate (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l NO ₃
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	100	mg/kg SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	0.01	% w/w SO ₄
CE119	Sulphur (total)	Acid extraction, ICP-OES	Dry		100	mg/kg S
CE119	Sulphur (total)	Acid extraction, ICP-OES	Dry		0.01	% w/w S



ANALYTICAL TEST REPORT

Contract no: 104429(1)

Contract name: Lutterworth Road, Burbage

Client reference: C10222

Clients name: Exploration & Testing Associates

Clients address: Unit 8B
Bowburn South Industrial Estate
Durham
DH6 5AD

Samples received: 11 January 2022

Analysis started: 11 January 2022

Analysis completed: 13 January 2022

Report issued: 21 January 2022

This is a supplementary report to report number 104429 issued 13 January 2022.

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing

Approved by:



Rachael Burton
Reporting Team Lead

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
104429-1	WS10	1.50	Sandy Loamy Clay with Roots	-	-	16.4

Chemtech Environmental Limited

SOILS

Lab number			104429-1
Sample id			WS10
Depth (m)			1.50
Date sampled			16/12/2021
Test	Method	Units	
pH	CE004 ^M	units	8.3
Magnesium (2:1 water soluble)	CE061	mg/l Mg	5.8
Chloride (2:1 water soluble)	CE049 ^U	mg/l Cl	11
Nitrate (2:1 water soluble)	CE049 ^U	mg/l NO ₃	<1
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	13
Sulphate (total)	CE062 ^M	mg/kg SO ₄	169
Sulphate (total)	CE062 ^M	% w/w SO ₄	0.02
Sulphur (total)	CE119	mg/kg S	<100
Sulphur (total)	CE119	% w/w S	<0.01

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Magnesium (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry		1	mg/l Mg
CE049	Chloride (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l Cl
CE049	Nitrate (2:1 water soluble)	Aqueous extraction, IC-COND	Dry	U	1	mg/l NO ₃
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	100	mg/kg SO ₄
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	M	0.01	% w/w SO ₄
CE119	Sulphur (total)	Acid extraction, ICP-OES	Dry		100	mg/kg S
CE119	Sulphur (total)	Acid extraction, ICP-OES	Dry		0.01	% w/w S

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DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
104429-1	WS10	1.50	Y	pH (EHT)

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

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

Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Chemtech Environmental Limited

TEST REPORT REVISIONS

The table below identifies amendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
104429	Original report issued	13 January 2022
104429(1)	Sulphate(total) as %w/w and Sulphur(total) as %w/w added to report. Sampling date and deviations amended.	21 January 2022

Chemtech Environmental Limited

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Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
104346-1	TP02	1.00	Y	pH (EHT)
104346-2	TP05	2.40	Y	pH (EHT)
104346-3	TP09	1.10	Y	pH (EHT)
104346-4	TP12	3.20	Y	pH (EHT)
104346-5	TP16	2.00	Y	pH (EHT)

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