



Certificate of Analysis

Certificate Number 22-22300

Issued: 16-Nov-22

Client Lithos Consulting Ltd
Parkhill
Walton Rd
Wetherby
LS22 5DZ

Our Reference 22-22300

Client Reference 4511

Order No PO19787

Contract Title Denby Lane, Grnage Moor

Description 6 Soil samples.

Date Received 17-Oct-22

Date Started 02-Nov-22

Date Completed 16-Nov-22

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

Kirk Bridgewood
General Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 22-22300

Client Ref 4511

Contract Title Denby Lane, Grnage Moor

Lab No	2079961	2079962	2079963	2079964	2079965	2079966
Sample ID	TP06	TP09	TP22	TP03	TP02	TP05
Depth	2.20	0.80	1.00	0.20	0.20	0.10
Other ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	11/10/2022	11/10/2022	11/10/2022	12/10/2022	11/10/2022	11/10/2022
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
Metals									
Arsenic Gastric % Bioaccessible (% of Total As)	DETSC 2400*	0	%				1.2	1.3	1.2
Arsenic Gastric mg/kg Bioaccessible	DETSC 2400*	0.5	mg/kg				0.6	< 0.5	< 0.5
Arsenic Gastro Intestinal % Bioaccessible (% of Total As)	DETSC 2400*	0	%				2.0	2.7	2.4
Arsenic Gastro Intestinal mg/kg Bioaccessible	DETSC 2400*	0.5	mg/kg				1.0	0.7	0.9
Arsenic	DETSC 2301#	0.2	mg/kg				49	26	40
Inorganics									
Combustibility	DETSC 2036*	0		c	d	d			

Combustability Test Results

Screening Test Procedure and Classification

Sample divided into 5 sub-samples. 10g of material was then abstracted from each sub-sample and heated on gauze cloth over a Bunsen burner for 15 minutes. Reactions were observed both during and after heating and the material classified as follows:

Reaction Grade	Description
F	The material did not glow, but there was a slight decrepitation (inert material).
E	The sample glowed but did not ignite (inert material).
D	Volatiles were emitted and/or some bubbling occurred, but the material did not ignite (inert material).
C	Sample ignited, but did not persist burning after the Bunsen burner was withdrawn.
B	Sample ignited, continued burning weakly and smouldered after the Bunsen burner was withdrawn.
A	Sample ignited and continued to burn vigorously after the Bunsen burner was withdrawn.

Information in Support of the Analytical Results

Our Ref 22-22300
 Client Ref 4511
 Contract Denby Lane, Grnage Moor

Containers Received & Deviating Samples

Lab No	Sample ID	Date Sampled	Containers Received	Holding time exceeded for tests	Inappropriate container for tests
2079961	TP06 2.20 SOIL	11/10/22	PT 1L		
2079962	TP09 0.80 SOIL	11/10/22	GJ 250ml, PT 1L		
2079963	TP22 1.00 SOIL	11/10/22	GJ 250ml, PT 1L		
2079964	TP03 0.20 SOIL	12/10/22	GJ 250ml, PT 1L		
2079965	TP02 0.20 SOIL	11/10/22	GJ 250ml, PT 1L		
2079966	TP05 0.10 SOIL	11/10/22	GJ 250ml, PT 1L		

Key: P-Plastic T-Tub G-Glass J-Jar

DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425µm sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

End of Report