



Laboratory Report



Contract Number: 64627

Client Ref: **GSI 1813**

Client PO: **23/0054**

Date Received: **15-02-2023**

Date Completed: **10-03-2023**

Report Date: **10-03-2023**

Client: **GeoCon Site Investigation Limited**
Suite 2, Marple House
39 Stockport Road, Marple
Stockport
SK6 6BD

This report has been checked and approved by:

Brendan Evans
Office Administrator

Contract Title: **325 Deansgate**

For the attention of: **Ian Walker**

Test Description	Qty
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	5
BRE Reduced Suite includes pH, water & acid soluble sulphate and total sulphur Sub-contracted Test	5
Determination of Point Load Value Axial or Diametrical including WC *Please note GSTL is not accredited for the water content of rock* ISRM Suggested Method for Point Load Strength - * UKAS	15
Uniaxial Compressive Strength of Rock inc sample prep 54-165mm diameter cores ISRM Suggested Method for determining uniaxial compressive strength - @ Non Accredited Test	9
Disposal of samples for job	1

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

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 test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

Approved Signatories:

Brendan Evans (Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)
Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)
Wayne Honey (Human Resources/ Health and Safety Manager)

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 64627

Borehole/Pit No. BH01a

Project Name 325 Deansgate

Sample No.

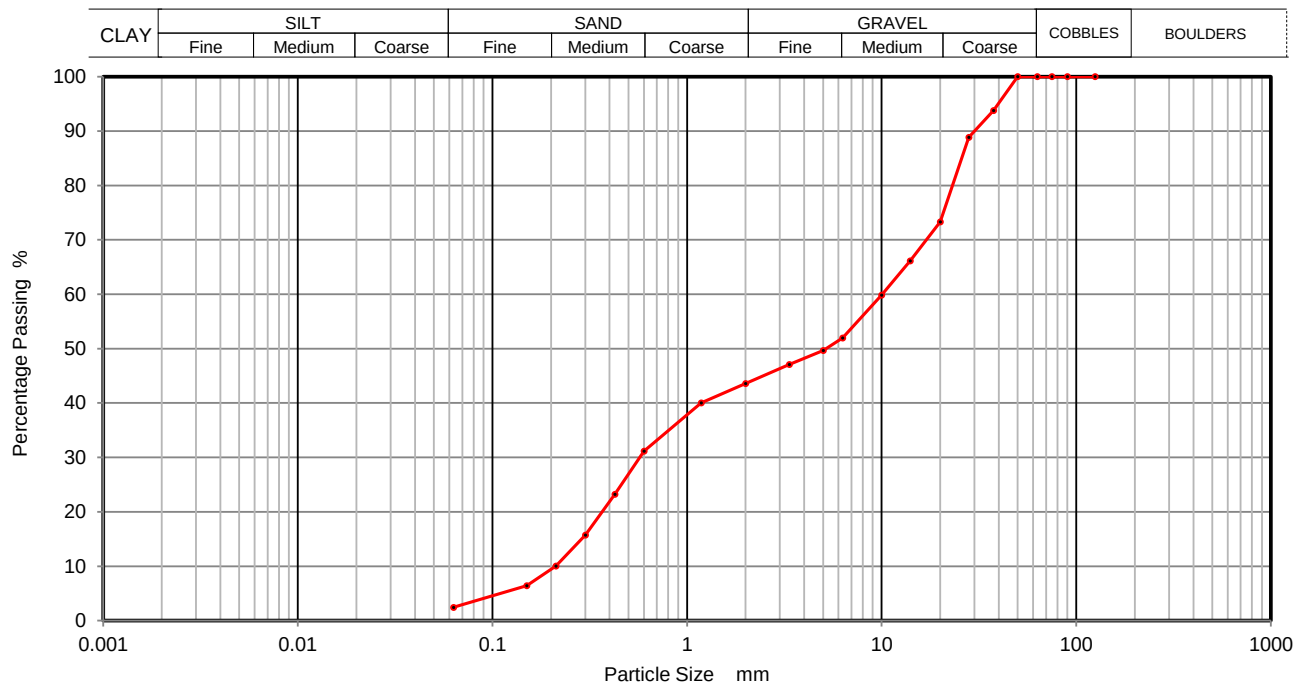
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 4.00

Depth Base

Date Tested 06/03/2023

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	89		
20	73		
14	66		
10	60		
6.3	52		
5	50		
3.35	47		
2	44		
1.18	40		
0.6	31		
0.425	23		
0.3	16		
0.212	10		
0.15	6		
0.063	2		

Sample Proportions	% dry mass
Cobbles	0
Gravel	56
Sand	42
Silt and Clay	2

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 64627

Borehole/Pit No. BH02a

Project Name 325 Deansgate

Sample No.

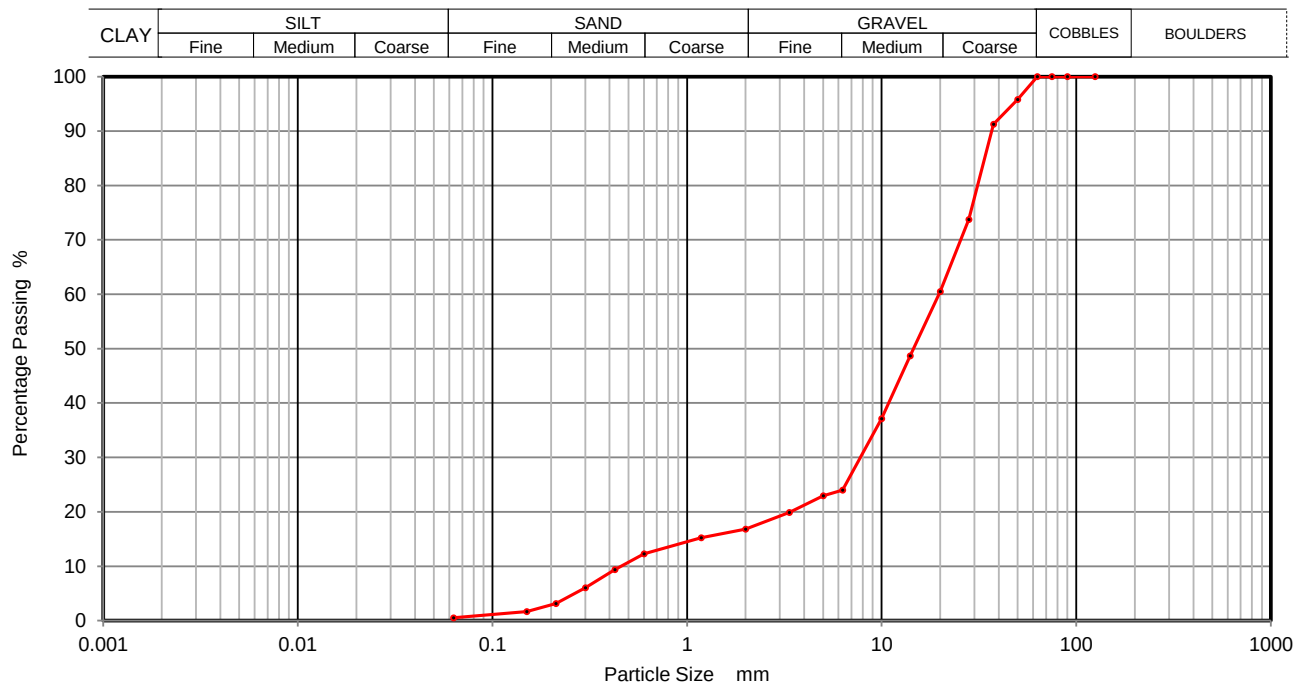
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 3.00

Depth Base

Date Tested 06/03/2023

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	96		
37.5	91		
28	74		
20	61		
14	49		
10	37		
6.3	24		
5	23		
3.35	20		
2	17		
1.18	15		
0.6	12		
0.425	9		
0.3	6		
0.212	3		
0.15	2		
0.063	1		

Sample Proportions	% dry mass
Cobbles	0
Gravel	83
Sand	16
Silt and Clay	1

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 64627

Borehole/Pit No. BH03

Project Name 325 Deansgate

Sample No.

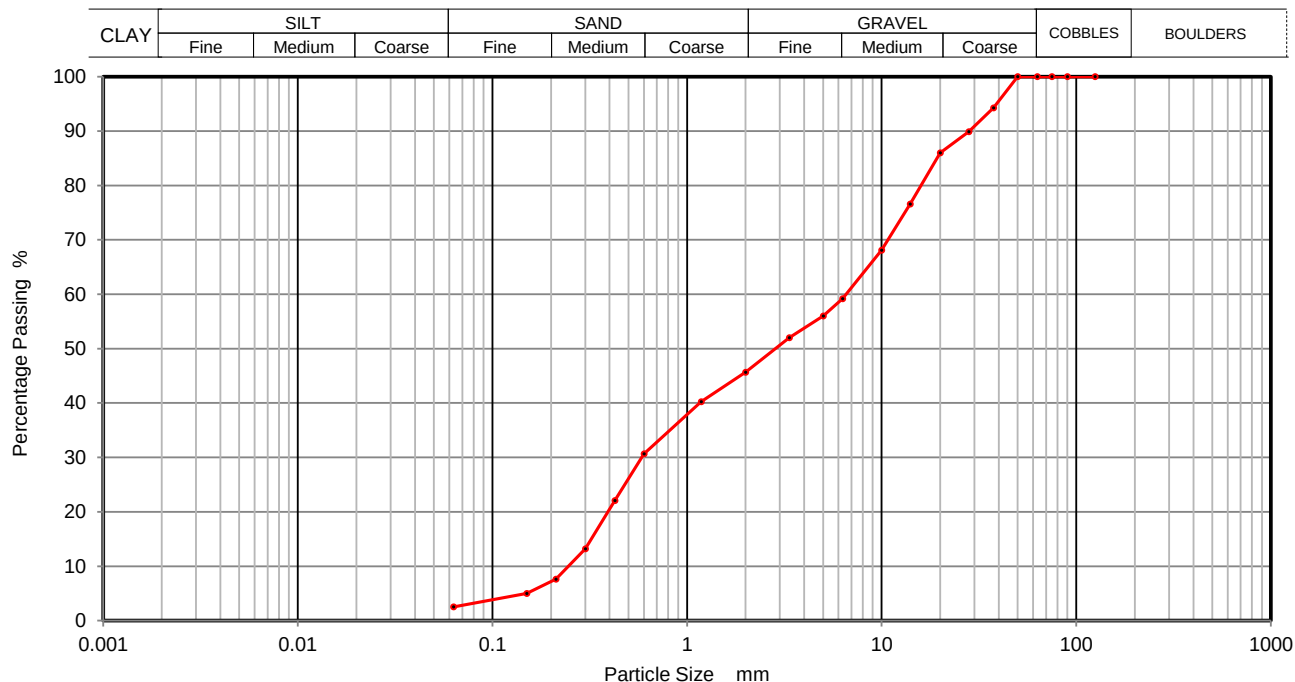
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 2.00

Depth Base

Date Tested 06/03/2023

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	90		
20	86		
14	77		
10	68		
6.3	59		
5	56		
3.35	52		
2	46		
1.18	40		
0.6	31		
0.425	22		
0.3	13		
0.212	8		
0.15	5		
0.063	3		

Sample Proportions	% dry mass
Cobbles	0
Gravel	54
Sand	43
Silt and Clay	3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 64627

Borehole/Pit No. BH04

Project Name 325 Deansgate

Sample No.

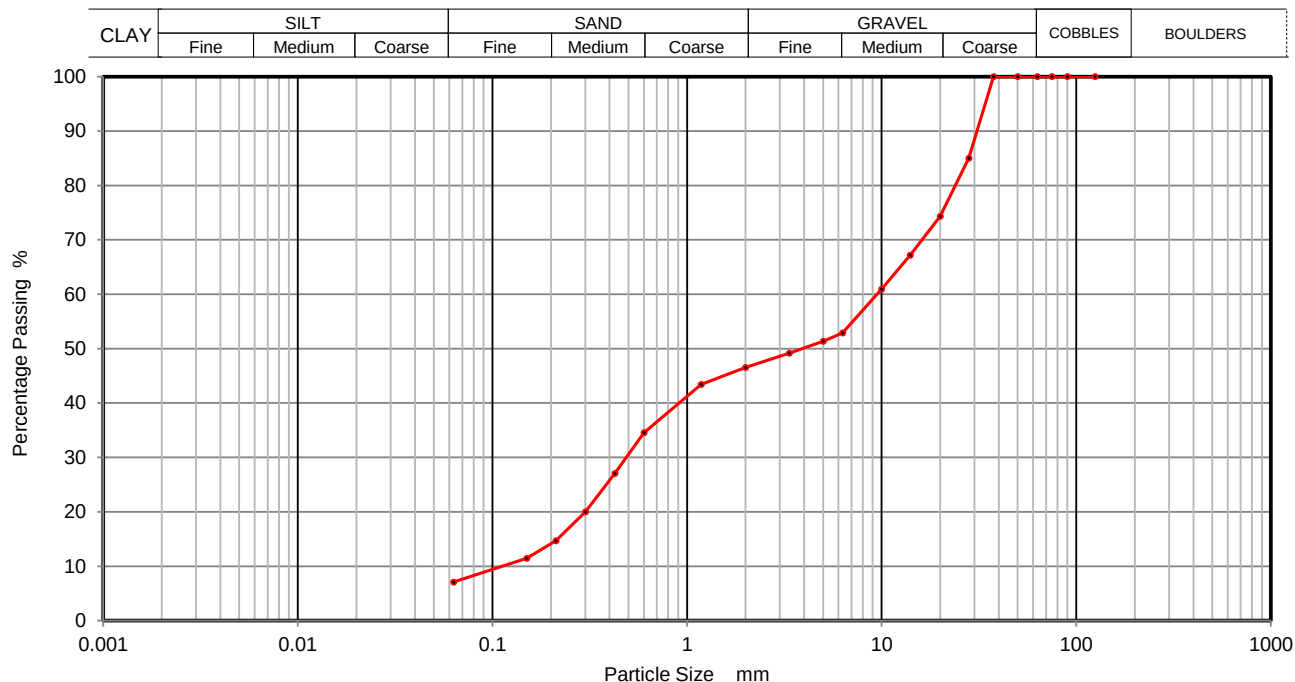
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 1.20

Depth Base 1.65

Date Tested 06/03/2023

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	85		
20	74		
14	67		
10	61		
6.3	53		
5	51		
3.35	49		
2	47		
1.18	43		
0.6	35		
0.425	27		
0.3	20		
0.212	15		
0.15	11		
0.063	7		

Sample Proportions	% dry mass
Cobbles	0
Gravel	53
Sand	40
Silt and Clay	7

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 64627

Borehole/Pit No. BH05

Project Name 325 Deansgate

Sample No.

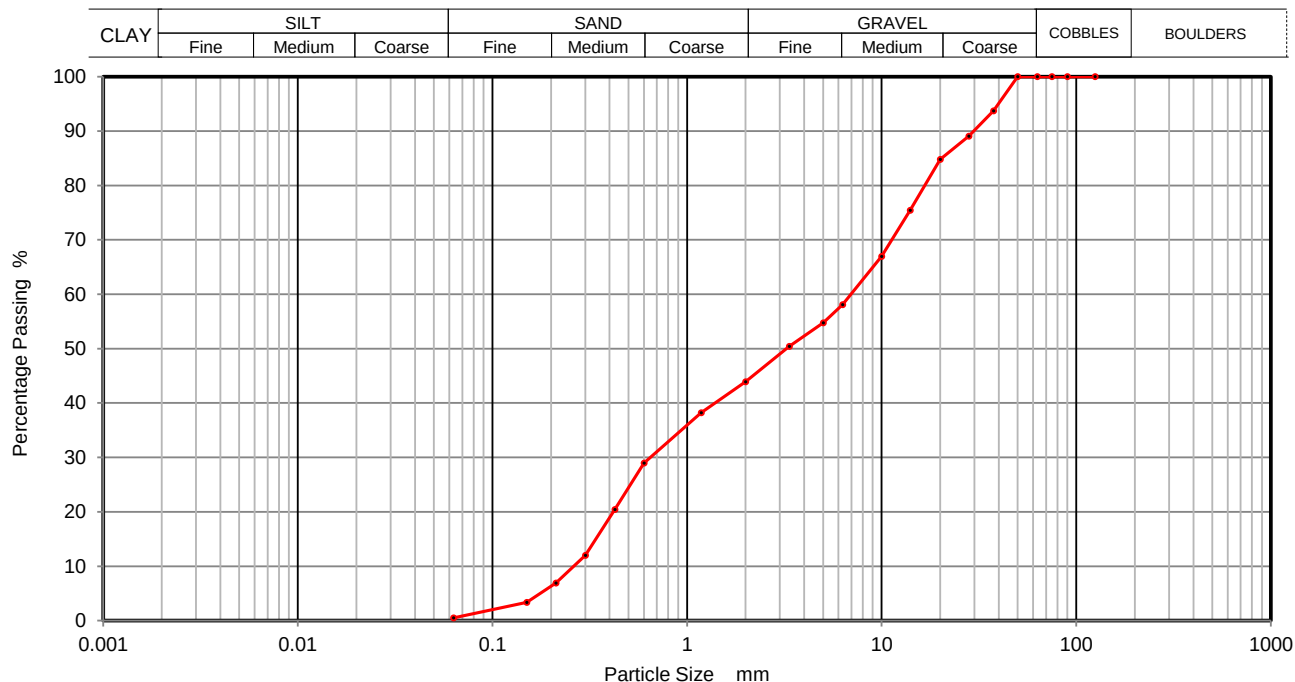
Soil Description Brown fine to coarse sandy fine to coarse GRAVEL

Depth Top 2.45

Depth Base 2.70

Date Tested 06/03/2023

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	89		
20	85		
14	75		
10	67		
6.3	58		
5	55		
3.35	50		
2	44		
1.18	38		
0.6	29		
0.425	20		
0.3	12		
0.212	7		
0.15	3		
0.063	0		

Sample Proportions	% dry mass
Cobbles	0
Gravel	56
Sand	44
Silt and Clay	0

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards



Determination of Unconfined Compressive Strength
ISRM Suggested Methods Vol 16, No. 2, pp. 135-140 1979

Contract Number	64627	
Project Name	325 Deansgate	
Sample Preperation	Sawing and Grinding	
Date Tested	24/02/2023	

[illegible]

<u>Key</u>	<u>Reported As</u>
Diameter	mm
Length	mm
Initial Mass	g
Moisture Content	%
Bulk Density	Mg/m ³
Dry Density	Mg/m ³
Load Failure	kN
Maximum Strength	MPa

Operator
Julian Jones

Point Load Test The complete ISRM suggested methods for rock characterization, testing and monitoring 1974-2006 Determining Point Load Strength
64627
325 Deansgate
Core
24/02/2023
*Please note that GSTL is not accredited for the water content of rock

[illegible]

<u>Key</u>	<u>Reported As</u>
Width	(W) mm
Platen Separation	(D) mm
Failure Load	(P) kN
Equivalent Diameter	(De) mm
Point Load	(Is) MPa
Size Factor	(F)
Point Load Index	(Is(50)) MPa
Moisture Content	%
Description	SC

Operator
Julian Jones



ANALYTICAL TEST REPORT

Contract no: 119664

Contract name: 325 Deangate

Client reference: GSI-1813

Clients name: Geo Site and Testing Services

Clients address: Unit 3 and 4 Heol Aur
Dafen Industrial Estate, Dafen
Llanelli, Carmarthenshire
SA14 8QN

Samples received: 24 February 2023

Analysis started: 24 February 2023

Analysis completed: 03 March 2023

Report issued: 03 March 2023

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:

Abbie Neasham-Bourn
Senior Reporting Administrator

Chemtech Environmental Limited

SOILS

Lab number			119664-1	119664-2	119664-3	119664-4	119664-5
Sample id			BH01A	BH02A	BH05	BH04	BH03
Depth (m)			2.00	1.20	3.00-3.50	5.00-6.00	7.50-8.50
Sample Type			B	B	B	RC	RC
Date sampled			-	-	-	-	-
Test	Method	Units					
pH	CE004 ^U	units	8.6	7.4	8.2	9.2	8.6
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	22	90	366	40	<10
Sulphate (acid extractable)	CE062 ^U	mg/kg SO ₄	<100	326	937	<100	<100
Sulphate (acid extractable)	CE062 ^U	% w/w SO ₄	<0.01	0.03	0.09	<0.01	<0.01
Sulphur (total)	CE119	mg/kg S	<100	158	471	<100	<100
Sulphur (total)	CE119	% w/w S	<0.01	0.02	0.05	<0.01	<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	U	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE062	Sulphate (acid extractable)	HCl extract, analysed by ICP-OES	Dry	U	100	mg/kg SO ₄
CE062	Sulphate (acid extractable)	HCl extract, analysed by ICP-OES	Dry	U	0.01	% w/w SO ₄
CE119	Sulphur (total)	Aqua regia digest, analysed by ICP-OES	Dry		100	mg/kg S
CE119	Sulphur (total)	Aqua regia digest, analysed by ICP-OES	Dry		0.01	% w/w S

Chemtech Environmental Limited

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)
119664-1	BH01A	2.00	Y	All (NSD)
119664-2	BH02A	1.20	Y	All (NSD)
119664-3	BH05	3.00-3.50	Y	All (NSD)
119664-4	BH04	5.00-6.00	Y	All (NSD)
119664-5	BH03	7.50-8.50	Y	All (NSD)

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 4 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.

Analytical results are inclusive of stones, where applicable.

APPENDIX K
CHEMICAL TESTING RESULTS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 23/01002
Issue Number: 1

Date: 15 February, 2023

Client: Geocon Site Investigations Ltd
Suite 2 Marple House,
39 Stockport Road,
Marple
Stockport
UK
SK6 6BD

Project Manager: Use - Mailing list/Use - Mailing list 2
Project Name: Deansate, Manchester
Project Ref: GSI 1813
Order No: PO 22/0042
Date Samples Received: 01/02/23
Date Instructions Received: 07/02/23
Date Analysis Completed: 15/02/23

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
% Stones >10mm _A	10.5	5.8	15.2	12.8	22.3	20.1	13.4	% w/w	0.1	A-T-044
pH _D ^{M#}	7.99	-	8.12	8.19	-	7.72	8.91	pH	0.01	A-T-031s
Cyanide (total) _A ^{M#}	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	-	<0.2	<0.2	-	<0.2	<0.2	mg/kg	0.2	A-T-050s
Total Organic Carbon _D ^{M#}	2.06	-	0.98	0.40	-	0.85	2.25	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	48	-	4	3	-	6	13	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	1.4	-	0.7	0.5	-	0.6	2.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	70	-	27	15	-	26	237	mg/kg	1	A-T-024s
Chromium _D ^{M#}	22	-	15	10	-	14	21	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	279	-	53	41	-	515	699	mg/kg	1	A-T-024s
Mercury _D	0.47	-	0.37	2.43	-	1.51	2.79	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	24	-	13	10	-	12	24	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	148	-	48	41	-	55	483	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-2 (10:1) _A	-	*	-	-	*	-	-			A-T-001
pH (leachable) _A [#]	-	7.60	-	-	7.55	-	-	pH	0.01	A-T-031w
Cyanide (total) (leachable) _A [#]	-	<0.005	-	-	<0.005	-	-	mg/l	0.005	A-T-042wTCN
Phenols (total by HPLC) (leachable) _A	-	<0.01	-	-	<0.01	-	-	mg/l	0.01	A-T-050w
Arsenic (leachable) _A	-	8	-	-	3	-	-	µg/l	1	A-T-025w
Cadmium (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-025w
Copper (leachable) _A	-	9	-	-	<4	-	-	µg/l	4	A-T-025w
Chromium (leachable) _A	-	2	-	-	28	-	-	µg/l	1	A-T-025w
Lead (leachable) _A	-	23	-	-	12	-	-	µg/l	1	A-T-025w
Mercury (leachable) _A	-	<0.1	-	-	<0.1	-	-	µg/l	0.1	A-T-025w
Nickel (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-025w
Selenium (leachable) _A	-	<1	-	-	2	-	-	µg/l	1	A-T-025w
Zinc (leachable) _A	-	13	-	-	9	-	-	µg/l	2	A-T-025w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	-	NAD	NAD	-	NAD	NAD			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-	N/A	N/A	-	N/A	N/A			A-T-045

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
PAH-16MS										
Acenaphthene _A ^{M#}	0.02	-	<0.01	<0.01	-	<0.01	0.03	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	-	<0.01	<0.01	-	<0.01	0.02	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.03	-	<0.02	<0.02	-	<0.02	0.06	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.11	-	<0.04	<0.04	-	<0.04	0.63	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.09	-	<0.04	<0.04	-	<0.04	0.68	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.09	-	<0.05	<0.05	-	<0.05	0.65	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	-	<0.05	<0.05	-	<0.05	0.42	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	<0.07	<0.07	-	<0.07	0.20	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.13	-	<0.06	<0.06	-	<0.06	0.81	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	-	<0.04	0.05	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.30	-	<0.08	<0.08	-	<0.08	1.59	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.01	-	<0.01	<0.01	-	<0.01	0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	-	<0.03	<0.03	-	<0.03	0.36	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	-	<0.03	<0.03	-	<0.03	0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.18	-	0.05	<0.03	-	<0.03	0.44	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.40	-	0.08	<0.07	-	0.08	2.19	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	1.36	-	0.13	<0.08	-	0.08	8.17	mg/kg	0.01	A-T-019s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
PAH 16MS (leachable)										
Acenaphthene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Acenaphthylene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Anthracene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Benzo(a)anthracene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Benzo(a)pyrene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Benzo(b)fluoranthene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Benzo(ghi)perylene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Benzo(k)fluoranthene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Chrysene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Dibenzo(ah)anthracene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Fluoranthene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Fluorene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Indeno(123-cd)pyrene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Naphthalene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Phenanthrene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Pyrene (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w
Total PAH 16MS (leachable) _A	-	<0.02	-	-	<0.02	-	-	µg/l	0.02	A-T-019w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Speciated PCB-EC7										
PCB BZ 28 _A ^{M#}	<0.003	-	<0.003	<0.003	-	<0.003	<0.003	mg/kg	0.003	A-T-004s
PCB BZ 52 _A ^{M#}	<0.002	-	<0.002	<0.002	-	<0.002	<0.002	mg/kg	0.002	A-T-004s
PCB BZ 101 _A ^{M#}	<0.004	-	<0.004	<0.004	-	<0.004	<0.004	mg/kg	0.004	A-T-004s
PCB BZ 118 _A ^{M#}	<0.007	-	<0.007	<0.007	-	<0.007	<0.007	mg/kg	0.007	A-T-004s
PCB BZ 138 _A ^{M#}	<0.006	-	<0.006	<0.006	-	<0.006	<0.006	mg/kg	0.006	A-T-004s
PCB BZ 153 _A ^{M#}	<0.004	-	<0.004	<0.004	-	<0.004	<0.004	mg/kg	0.004	A-T-004s
PCB BZ 180 _A ^{M#}	<0.004	-	<0.004	<0.004	-	<0.004	<0.004	mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7 _A ^{M#}	<0.007	-	<0.007	<0.007	-	<0.007	<0.007	mg/kg	0.003	A-T-004s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Speciated PCB-EC7 (leachable)										
PCB BZ 28 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 52 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 101 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 118 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 138 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 153 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
PCB BZ 180 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w
Total Speciated PCB-EC7 (leachable) _A	-	<0.002	-	-	<0.002	-	-	µg/l	0.002	A-T-004w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
SVOC										
4-Bromophenyl phenyl ether _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Hexachlorobenzene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Diethyl phthalate _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Dimethyl phthalate _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Dibenzofuran _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Carbazole _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	<500	-	<500	<500	-	<500	<500	µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
4-Nitrophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
3+4-Methylphenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Nitrophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Methylphenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Chlorophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Chloronaphthalene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
2-Methylnaphthalene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Phenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Pentachlorophenol _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
n-Dioctylphthalate _A	<500	-	<500	<500	-	<500	<500	µg/kg	500	A-T-052s
n-Dibutylphthalate _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Nitrobenzene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Isophorone _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Hexachloroethane _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Hexachlorocyclopentadiene _A	<100	-	<100	<100	-	<100	<100	µg/kg	100	A-T-052s
Perylene _A	<100	-	<100	<100	-	<100	204	µg/kg	100	A-T-052s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
VOC										
Dichlorodifluoromethane _A	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	<10	-	<10	<10	-	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	-	<5	<5	-	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	-	<5	<5	-	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	-	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	-	<10	<10	-	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	-	<3	<3	-	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Chlorobenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	-	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	-	<2	<2	-	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	-	<3	<3	-	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	-	<1	<1	-	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	-	<3	<3	-	<3	<3	µg/kg	3	A-T-006s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
SVOC excluding PAH-16 (leachable)										
2,4,5-Trichlorophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2,4,6-Trichlorophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2,4-Dichlorophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2,4-Dimethylphenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2,4-Dinitrotoluene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2,6-Dinitrotoluene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2-Chloronaphthalene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2-Chlorophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2-Methylnaphthalene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2-Methylphenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
2-Nitrophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
4-Bromophenyl phenyl ether (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
4-Chloro-3-methylphenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
3+4-Methylphenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
4-Nitrophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Bis(2-chloroethoxy)methane (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Bis(2-chloroethyl)ether (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Bis(2-chloroisopropyl)ether (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Bis(2-ethylhexyl)phthalate (leachable) _A	-	<8	-	-	<8	-	-	µg/l	4	A-T-052w
Butylbenzyl phthalate (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Carbazole (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Dibenzofuran (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Diethyl phthalate (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Dimethyl phthalate (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
n-Dibutylphthalate (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
n-Dioctylphthalate (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-052w
Hexachlorobenzene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Hexachlorocyclopentadiene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Hexachloroethane (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Isophorone (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Nitrobenzene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
n-Nitroso-n-dipropylamine (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
Pentachlorophenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Perylene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w
Phenol (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-052w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
VOC (leachable)										
Dibromochloromethane (leachable) _A	-	<3	-	-	<3	-	-	µg/l	3	A-T-006w
Dibromomethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Dichlorodifluoromethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Dichloromethane (leachable) _A	-	<5	-	-	<5	-	-	µg/l	5	A-T-006w
Ethylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Hexachlorobutadiene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Isopropylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
n-butylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
n-propylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
o-Xylene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
m & p Xylene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
sec-Butylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Styrene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
tert-Butylbenzene (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-006w
Tetrachloroethene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Toluene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
trans 1,2-Dichloroethene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
trans 1,3-Dichloropropene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Trichloroethene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Trichlorofluoromethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Vinyl Chloride (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1,1,2-Tetrachloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1,1-Trichloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1,2-Trichloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1-Dichloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1-Dichloroethene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,1-Dichloropropene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,2,3-Trichlorobenzene (leachable) _A	-	<3	-	-	<3	-	-	µg/l	3	A-T-006w
1,2,3-Trichloropropane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,2,4-Trichlorobenzene (leachable) _A	-	<3	-	-	<3	-	-	µg/l	3	A-T-006w
1,2,4-Trimethylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
1,2-Dibromo-3-chloropropane (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-006w
1,2-Dibromoethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,2-Dichlorobenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,2-Dichloroethane (leachable) _A	-	<2	-	-	<2	-	-	µg/l	2	A-T-006w
1,2-Dichloropropane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,3-Dichlorobenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,3-Dichloropropane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
1,4-Dichlorobenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
2,2-Dichloropropane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
2-Chlorotoluene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
4-Chlorotoluene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
4-Isopropyltoluene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Benzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Bromobenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Bromochloromethane (leachable) _A	-	<5	-	-	<5	-	-	µg/l	5	A-T-006w
Bromodichloromethane (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-006w
Bromoform (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Bromomethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Carbon Disulphide (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Carbon Tetrachloride (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Chlorobenzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Chloroethane (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Chloroform (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
Chloromethane (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-006w
cis 1,2-Dichloroethene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w
cis 1,3-Dichloropropene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-006w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
TPH CWG (leachable) with Clean Up										
Ali >C5-C6 (leachable) _A	-	<2	-	-	<2	-	-	µg/l	1	A-T-022w
Ali >C6-C8 (leachable) _A	-	<2	-	-	<2	-	-	µg/l	1	A-T-022w
Ali >C8-C10 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Ali >C10-C12 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Ali >C12-C16 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Ali >C16-C21 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Ali >C21-C35 (leachable) _A	-	<20	-	-	<20	-	-	µg/l	20	A-T-055w
Total Aliphatics (leachable) _A	-	<20	-	-	<20	-	-	µg/l	10	Calc-As Recd
Aro >C5-C7 (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
Aro >C7-C8 (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
Aro >C8-C10 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Aro >C10-C12 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Aro >C12-C16 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Aro >C16-C21 (leachable) _A	-	<10	-	-	<10	-	-	µg/l	10	A-T-055w
Total Aromatics (leachable) _A	-	<20	-	-	<20	-	-	µg/l	20	Calc-As Recd
TPH (Ali & Aro >C5-C35) (leachable) _A	-	<20	-	-	<20	-	-	µg/l	20	Calc-As Recd
BTEX - Benzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
BTEX - Toluene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
BTEX - o Xylene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
BTEX - m & p Xylene (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
MTBE (leachable) _A	-	<1	-	-	<1	-	-	µg/l	1	A-T-022w
Aro >C21-C35 (leachable) _A	-	<20	-	-	<20	-	-	µg/l	20	A-T-055w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1a	BH1a	BH02	BH03	BH03	BH04	BH05			
Depth to Top	0.25	0.80	0.30	0.35	0.90	0.50	0.40			
Depth To Bottom										
Date Sampled	31-Jan-23	31-Jan-23	31-Jan-23	01-Feb-23	01-Feb-23	01-Feb-23	31-Jan-23			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Sample Matrix Code	4AB	6A	5A	4A	4A	4AB	4AB			
TPH CWG with Clean Up										
Ali >C5-C6 _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	1	-	<1	<1	-	<1	1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	9	-	5	<1	-	11	13	mg/kg	1	A-T-055s
Total Aliphatics _A	10	-	5	<1	-	11	14	mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	-	<1	<1	-	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	-	<1	<1	-	<1	1	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	3	-	<1	<1	-	<1	16	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	12	-	2	<1	-	5	83	mg/kg	1	A-T-055s
Total Aromatics _A	15	-	2	<1	-	6	100	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	25	-	7	<1	-	17	114	mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
% Stones >10mm _A	2.3							% w/w	0.1	A-T-044
Leachate Prep BS EN 12457-2 (10:1) _A	*									A-T-001
pH (leachable) _A [#]	7.30							pH	0.01	A-T-031w
Cyanide (total) (leachable) _A [#]	<0.005							mg/l	0.005	A-T-042wTCN
Phenols (total by HPLC) (leachable) _A	<0.01							mg/l	0.01	A-T-050w
Arsenic (leachable) _A	2							µg/l	1	A-T-025w
Cadmium (leachable) _A	<1							µg/l	1	A-T-025w
Copper (leachable) _A	6							µg/l	4	A-T-025w
Chromium (leachable) _A	3							µg/l	1	A-T-025w
Lead (leachable) _A	31							µg/l	1	A-T-025w
Mercury (leachable) _A	<0.1							µg/l	0.1	A-T-025w
Nickel (leachable) _A	<2							µg/l	2	A-T-025w
Selenium (leachable) _A	1							µg/l	1	A-T-025w
Zinc (leachable) _A	5							µg/l	2	A-T-025w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11									
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
PAH 16MS (leachable)										
Acenaphthene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Acenaphthylene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Anthracene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Benzo(a)anthracene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Benzo(a)pyrene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Benzo(b)fluoranthene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Benzo(ghi)perylene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Benzo(k)fluoranthene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Chrysene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Dibenzo(ah)anthracene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Fluoranthene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Fluorene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Indeno(123-cd)pyrene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Naphthalene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Phenanthrene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Pyrene (leachable) _A	<0.02							µg/l	0.02	A-T-019w
Total PAH 16MS (leachable) _A	<0.02							µg/l	0.02	A-T-019w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
Speciated PCB-EC7 (leachable)										
PCB BZ 28 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 52 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 101 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 118 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 138 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 153 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
PCB BZ 180 (leachable) _A	<0.002							µg/l	0.002	A-T-004w
Total Speciated PCB-EC7 (leachable) _A	<0.002							µg/l	0.002	A-T-004w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11									
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
SVOC excluding PAH-16 (leachable)										
2,4,5-Trichlorophenol (leachable) _A	<2							µg/l	2	A-T-052w
2,4,6-Trichlorophenol (leachable) _A	<2							µg/l	2	A-T-052w
2,4-Dichlorophenol (leachable) _A	<2							µg/l	2	A-T-052w
2,4-Dimethylphenol (leachable) _A	<2							µg/l	2	A-T-052w
2,4-Dinitrotoluene (leachable) _A	<2							µg/l	2	A-T-052w
2,6-Dinitrotoluene (leachable) _A	<2							µg/l	2	A-T-052w
2-Chloronaphthalene (leachable) _A	<2							µg/l	2	A-T-052w
2-Chlorophenol (leachable) _A	<2							µg/l	2	A-T-052w
2-Methylnaphthalene (leachable) _A	<2							µg/l	2	A-T-052w
2-Methylphenol (leachable) _A	<2							µg/l	2	A-T-052w
2-Nitrophenol (leachable) _A	<2							µg/l	2	A-T-052w
4-Bromophenyl phenyl ether (leachable) _A	<2							µg/l	2	A-T-052w
4-Chloro-3-methylphenol (leachable) _A	<2							µg/l	2	A-T-052w
3+4-Methylphenol (leachable) _A	<2							µg/l	2	A-T-052w
4-Nitrophenol (leachable) _A	<2							µg/l	2	A-T-052w
Bis(2-chloroethoxy)methane (leachable) _A	<2							µg/l	2	A-T-052w
Bis(2-chloroethyl)ether (leachable) _A	<2							µg/l	2	A-T-052w
Bis(2-chloroisopropyl)ether (leachable) _A	<2							µg/l	2	A-T-052w
Bis(2-ethylhexyl)phthalate (leachable) _A	<8							µg/l	4	A-T-052w
Butylbenzyl phthalate (leachable) _A	<2							µg/l	2	A-T-052w
Carbazole (leachable) _A	<2							µg/l	2	A-T-052w
Dibenzofuran (leachable) _A	<2							µg/l	2	A-T-052w
Diethyl phthalate (leachable) _A	<2							µg/l	2	A-T-052w
Dimethyl phthalate (leachable) _A	<2							µg/l	2	A-T-052w
n-Dibutylphthalate (leachable) _A	<2							µg/l	2	A-T-052w
n-Dioctylphthalate (leachable) _A	<10							µg/l	10	A-T-052w
Hexachlorobenzene (leachable) _A	<2							µg/l	2	A-T-052w
Hexachlorocyclopentadiene (leachable) _A	<2							µg/l	2	A-T-052w
Hexachloroethane (leachable) _A	<2							µg/l	2	A-T-052w
Isophorone (leachable) _A	<2							µg/l	2	A-T-052w
Nitrobenzene (leachable) _A	<2							µg/l	2	A-T-052w
n-Nitroso-n-dipropylamine (leachable) _A	<2							µg/l	2	A-T-052w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
Pentachlorophenol (leachable) _A	<2							µg/l	2	A-T-052w
Perylene (leachable) _A	<2							µg/l	2	A-T-052w
Phenol (leachable) _A	<2							µg/l	2	A-T-052w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11									
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
VOC (leachable)										
Dibromochloromethane (leachable) _A	<3							µg/l	3	A-T-006w
Dibromomethane (leachable) _A	<1							µg/l	1	A-T-006w
Dichlorodifluoromethane (leachable) _A	<1							µg/l	1	A-T-006w
Dichloromethane (leachable) _A	<5							µg/l	5	A-T-006w
Ethylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
Hexachlorobutadiene (leachable) _A	<1							µg/l	1	A-T-006w
Isopropylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
n-butylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
n-propylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
o-Xylene (leachable) _A	<1							µg/l	1	A-T-006w
m & p Xylene (leachable) _A	<1							µg/l	1	A-T-006w
sec-Butylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
Styrene (leachable) _A	<1							µg/l	1	A-T-006w
tert-Butylbenzene (leachable) _A	<2							µg/l	2	A-T-006w
Tetrachloroethene (leachable) _A	<1							µg/l	1	A-T-006w
Toluene (leachable) _A	<1							µg/l	1	A-T-006w
trans 1,2-Dichloroethene (leachable) _A	<1							µg/l	1	A-T-006w
trans 1,3-Dichloropropene (leachable) _A	<1							µg/l	1	A-T-006w
Trichloroethene (leachable) _A	<1							µg/l	1	A-T-006w
Trichlorofluoromethane (leachable) _A	<1							µg/l	1	A-T-006w
Vinyl Chloride (leachable) _A	<1							µg/l	1	A-T-006w
1,1,1,2-Tetrachloroethane (leachable) _A	<1							µg/l	1	A-T-006w
1,1,1-Trichloroethane (leachable) _A	<1							µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane (leachable) _A	<1							µg/l	1	A-T-006w
1,1,2-Trichloroethane (leachable) _A	<1							µg/l	1	A-T-006w
1,1-Dichloroethane (leachable) _A	<1							µg/l	1	A-T-006w
1,1-Dichloroethene (leachable) _A	<1							µg/l	1	A-T-006w
1,1-Dichloropropene (leachable) _A	<1							µg/l	1	A-T-006w
1,2,3-Trichlorobenzene (leachable) _A	<3							µg/l	3	A-T-006w
1,2,3-Trichloropropane (leachable) _A	<1							µg/l	1	A-T-006w
1,2,4-Trichlorobenzene (leachable) _A	<3							µg/l	3	A-T-006w
1,2,4-Trimethylbenzene (leachable) _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
1,2-Dibromo-3-chloropropane (leachable) _A	<2							µg/l	2	A-T-006w
1,2-Dibromoethane (leachable) _A	<1							µg/l	1	A-T-006w
1,2-Dichlorobenzene (leachable) _A	<1							µg/l	1	A-T-006w
1,2-Dichloroethane (leachable) _A	<2							µg/l	2	A-T-006w
1,2-Dichloropropane (leachable) _A	<1							µg/l	1	A-T-006w
1,3,5-Trimethylbenzene (leachable) _A	<1							µg/l	1	A-T-006w
1,3-Dichlorobenzene (leachable) _A	<1							µg/l	1	A-T-006w
1,3-Dichloropropane (leachable) _A	<1							µg/l	1	A-T-006w
1,4-Dichlorobenzene (leachable) _A	<1							µg/l	1	A-T-006w
2,2-Dichloropropane (leachable) _A	<1							µg/l	1	A-T-006w
2-Chlorotoluene (leachable) _A	<1							µg/l	1	A-T-006w
4-Chlorotoluene (leachable) _A	<1							µg/l	1	A-T-006w
4-Isopropyltoluene (leachable) _A	<1							µg/l	1	A-T-006w
Benzene (leachable) _A	<1							µg/l	1	A-T-006w
Bromobenzene (leachable) _A	<1							µg/l	1	A-T-006w
Bromochloromethane (leachable) _A	<5							µg/l	5	A-T-006w
Bromodichloromethane (leachable) _A	<10							µg/l	10	A-T-006w
Bromoform (leachable) _A	<1							µg/l	1	A-T-006w
Bromomethane (leachable) _A	<1							µg/l	1	A-T-006w
Carbon Disulphide (leachable) _A	<1							µg/l	1	A-T-006w
Carbon Tetrachloride (leachable) _A	<1							µg/l	1	A-T-006w
Chlorobenzene (leachable) _A	<1							µg/l	1	A-T-006w
Chloroethane (leachable) _A	<1							µg/l	1	A-T-006w
Chloroform (leachable) _A	<1							µg/l	1	A-T-006w
Chloromethane (leachable) _A	<10							µg/l	10	A-T-006w
cis 1,2-Dichloroethene (leachable) _A	<1							µg/l	1	A-T-006w
cis 1,3-Dichloropropene (leachable) _A	<1							µg/l	1	A-T-006w

Envirolab Job Number: 23/01002

Client Project Name: Deansate, Manchester

Client Project Ref: GSI 1813

Lab Sample ID	23/01002/11									
Client Sample No										
Client Sample ID	BH05									
Depth to Top	0.75									
Depth To Bottom										
Date Sampled	31-Jan-23									
Sample Type	Soil									
Sample Matrix Code	4AB									
TPH CWG (leachable) with Clean Up										
Ali >C5-C6 (leachable) _A	<2							µg/l	1	A-T-022w
Ali >C6-C8 (leachable) _A	<2							µg/l	1	A-T-022w
Ali >C8-C10 (leachable) _A	<10							µg/l	10	A-T-055w
Ali >C10-C12 (leachable) _A	<10							µg/l	10	A-T-055w
Ali >C12-C16 (leachable) _A	<10							µg/l	10	A-T-055w
Ali >C16-C21 (leachable) _A	<10							µg/l	10	A-T-055w
Ali >C21-C35 (leachable) _A	<20							µg/l	20	A-T-055w
Total Aliphatics (leachable) _A	<20							µg/l	10	Calc-As Recd
Aro >C5-C7 (leachable) _A	<1							µg/l	1	A-T-022w
Aro >C7-C8 (leachable) _A	<1							µg/l	1	A-T-022w
Aro >C8-C10 (leachable) _A	<10							µg/l	10	A-T-055w
Aro >C10-C12 (leachable) _A	<10							µg/l	10	A-T-055w
Aro >C12-C16 (leachable) _A	<10							µg/l	10	A-T-055w
Aro >C16-C21 (leachable) _A	<10							µg/l	10	A-T-055w
Total Aromatics (leachable) _A	<20							µg/l	20	Calc-As Recd
TPH (Ali & Aro >C5-C35) (leachable) _A	<20							µg/l	20	Calc-As Recd
BTEX - Benzene (leachable) _A	<1							µg/l	1	A-T-022w
BTEX - Toluene (leachable) _A	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (leachable) _A	<1							µg/l	1	A-T-022w
BTEX - o Xylene (leachable) _A	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (leachable) _A	<1							µg/l	1	A-T-022w
MTBE (leachable) _A	<1							µg/l	1	A-T-022w
Aro >C21-C35 (leachable) _A	<20							µg/l	20	A-T-055w

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, 9 = INCINERATOR ASH.

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

Subscript ""^" indicates analysis has dependant options against results. Testing dependant on results appear in the comments area of your sample receipt.

EPH CWG results have humics mathematically subtracted through instrument calculation

TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these

humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geocon Site Investigations Ltd, Suite 2 Marple House, 39 Stockport Road,
Marple, Stockport, UK, SK6 6BD

Project: Deansate, Manchester

Clients Project No: GSI 1813

Project No: 23/01002

Date Received: 07/02/2023 (am)

Cool Box Temperatures (°C): 11.0 & 12.5

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.

Envirolab Analysis Dates

Lab Sample ID	23/01002/1	23/01002/2	23/01002/4	23/01002/7	23/01002/8	23/01002/9	23/01002/10	23/01002/11
Client Sample No								
Client Sample ID/Depth	BH1a 0.25m	BH1a 0.80m	BH02 0.30m	BH03 0.35m	BH03 0.90m	BH04 0.50m	BH05 0.40m	BH05 0.75m
Date Sampled	31/01/23	31/01/23	31/01/23	01/02/23	01/02/23	01/02/23	31/01/23	31/01/23
A-T-004s	10/02/2023		10/02/2023	10/02/2023		10/02/2023	10/02/2023	
A-T-004w		14/02/2023			14/02/2023			14/02/2023
A-T-006s	09/02/2023		09/02/2023	09/02/2023		09/02/2023	09/02/2023	
A-T-006w		14/02/2023			14/02/2023			14/02/2023
A-T-019s	09/02/2023		09/02/2023	09/02/2023		09/02/2023	09/02/2023	
A-T-019w		13/02/2023			13/02/2023			13/02/2023
A-T-022s	10/02/2023		10/02/2023	10/02/2023		10/02/2023	10/02/2023	
A-T-022w		14/02/2023			14/02/2023			14/02/2023
A-T-024s	10/02/2023		10/02/2023	10/02/2023		10/02/2023	10/02/2023	
A-T-025w		15/02/2023			15/02/2023			15/02/2023
A-T-031s	10/02/2023		10/02/2023	10/02/2023		10/02/2023	10/02/2023	
A-T-031w		13/02/2023			13/02/2023			13/02/2023
A-T-032s	10/02/2023		10/02/2023	10/02/2023		10/02/2023	10/02/2023	
A-T-040s	14/02/2023		14/02/2023	14/02/2023		14/02/2023	14/02/2023	
A-T-042sTCN	09/02/2023		09/02/2023	09/02/2023		09/02/2023	09/02/2023	
A-T-042wTCN		13/02/2023			13/02/2023			13/02/2023
A-T-044	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023	10/02/2023
A-T-045	08/02/2023		08/02/2023	08/02/2023		08/02/2023	08/02/2023	
A-T-050s	13/02/2023		13/02/2023	13/02/2023		13/02/2023	13/02/2023	
A-T-050w		13/02/2023			13/02/2023			13/02/2023
A-T-052s	09/02/2023		09/02/2023	09/02/2023		09/02/2023	09/02/2023	
A-T-052w		15/02/2023			15/02/2023			15/02/2023
A-T-055s	09/02/2023		09/02/2023	09/02/2023		09/02/2023	09/02/2023	
A-T-055w		14/02/2023			14/02/2023			14/02/2023
Calc-As Recd	10/02/2023	14/02/2023	10/02/2023	10/02/2023	14/02/2023	10/02/2023	10/02/2023	14/02/2023

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

APPENDIX L

GAS AND GROUNDWATER
MONITORING RESULTS



Gas Monitoring Results Sheet

GeoCon Site Investigations Ltd

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Site: 325 Deansgate, Manchester
Project Number: GSI 1813
National Grid Reference: 383434:397622
Instrument: GFM 436 & Dip meter

Monitoring Point Reference	Date	Atmospheric pressure (mb)	Flow Range (l/hr)		Methane (% v/v)		Carbon Dioxide (% v/v)		Oxygen (% v/v)		Methane Gas Screening Value (GSV) (l/hr)	Carbon Dioxide Gas Screening Value (GSV) (l/hr)	Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	Standing Water Level (mbgl)	Well Depth (mbgl)
			Peak	Steady	Peak	Steady	Peak	Steady	Low	Steady						
BH01	08 February 2023	1030													10.79	19.04
	24 February 2023	1009													11.03	19.04
	14 March 2023	999													11.89	19.02
	22 March 2023	992													11.43	19.02
	03 April 2023	1025													10.90	19.02
	21 April 2023	1010													11.23	19.02
BH02a	08 February 2023	1030	0.4	0.0	0.0	0.0	0.3	0.3	20.9	20.9	0.0000	0.0000	0.0	0.0	Dry	3.00
	24 February 2023	1009	0.2	0.0	0.0	0.0	0.3	0.3	20.8	20.8	0.0000	0.0000	0.0	0.0	Dry	3.00
	14 March 2023	999	-	-	-	-	-	-	-	-	-	-	-	-	2.87	3.00
	22 March 2023	992	0.0	0.0	0.0	0.0	0.2	0.2	17.0	17.0	0.0000	0.0000	0.0	0.0	Dry	3.00
	03 April 2023	1025	-	-	-	-	-	-	-	-	-	-	-	-	2.80	3.00
	21 April 2023	1010	0.0	0.0	0.0	0.0	0.4	0.4	20.8	20.8	0.0000	0.0000	0.0	0.0	1.80	3.00
BH03	08 February 2023	1030													8.79	18.50
	24 February 2023	1009													9.17	18.50
	14 March 2023	1000													9.16	18.50
	22 March 2023	993													9.10	18.50
	03 April 2023	1025													9.16	18.50
	21 April 2023	1010													9.15	18.50
BH04	08 February 2023	1030	0.3	0.0	0.0	0.0	0.5	0.0	20.9	20.9	0.0000	0.0000	0.0	0.0	Dry	3.00
	24 February 2023	1009	0.0	0.0	0.0	0.0	0.7	0.2	20.8	20.8	0.0000	0.0000	0.0	0.0	Dry	3.00
	14 March 2023	999	0.1	0.0	0.0	0.0	0.7	0.7	17.7	17.8	0.0000	0.0000	0.0	0.0	Dry	3.00
	22 March 2023	993	-0.3	0.0	0.0	0.0	0.7	0.7	17.3	17.3	0.0000	0.0000	0.0	0.0	Dry	3.00
	03 April 2023	1025	0.2	0.0	0.0	0.0	0.7	0.6	16.0	16.2	0.0000	0.0000	0.0	0.0	Dry	3.00
	21 April 2023	1010	0.0	0.0	0.0	0.0	0.6	0.6	20.7	20.7	0.0000	0.0000	0.0	0.0	Dry	3.00
BH05	08 February 2023	1030	0.3	-0.1	0.0	0.0	0.2	0.0	20.9	20.9	0.0000	-0.0002	0.0	0.0	Dry	3.00
	24 February 2023	1009	0.0	0.0	0.0	0.0	0.2	0.2	20.9	20.9	0.0000	0.0000	0.0	0.0	Dry	3.00
	14 March 2023	1000	0.0	-0.2	0.0	0.0	0.3	0.3	16.9	17.0	0.0000	-0.0006	0.0	0.0	Dry	3.00
	22 March 2023	993	-0.4	0.0	0.0	0.0	0.3	0.3	17.0	17.0	0.0000	0.0000	0.0	0.0	Dry	3.00
	03 April 2023	1024	0.0	0.0	0.0	0.0	0.3	0.2	16.0	16.2	0.0000	0.0000	0.0	0.0	Dry	3.00
	21 April 2023	1010	0.1	0.0	0.0	0.0	0.3	0.3	20.8	20.8	0.0000	0.0000	0.0	0.0	Dry	3.00
Maximum			0.4	0.0	0.0	0.0	0.7	0.7	16.0	16.2	0.0000	0.0000	0.0	0.0		

Additional Information:

Date	Engineer	Weather	Air Temperature (°C)	Ground Conditions	Pressure Trend	Comments
08 February 2023	HH	Clear	5.0	Dry	Falling	Groundwater holes purged. BH01 no change in water level after purging. BH03 8.79 prior to purging, 8.91 - 1 hour after purging. Some standpipes appear to have silted up.
24 February 2023	AH	Overcast	8.0	Dry	Steady	NA
14 March 2023	WG	Clear	3.0	Dry	Rising	BH02 submerged in water, unable to take gas readings.
22 March 2023	AH	Overcast	7.0	Dry	Falling	NA
03 April 2023	WG	Clear	4.0	Dry	Falling	BH02 submerged in water, unable to take gas readings.
21 April 2023	AH	Light Rian	10.0	Dry	Steady	NA

* All monitoring point locations are monitored for a minimum of 60 seconds, and both the peak reading and the steady / rest readings are recorded

* BD = Below the detection limit of the gas analyser (0.1units)

* NR = No reading taken

*NA = Not Applicable