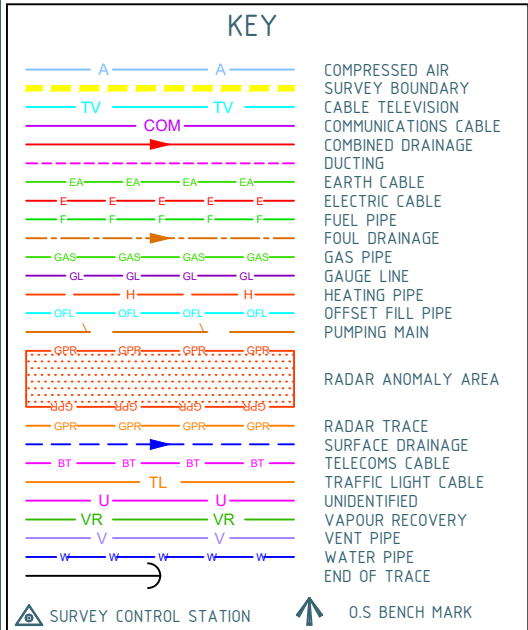




Appendix A – Figures

[illegible][illegible]

GEO2		DWG NO	0085-GEO2-050424	REV
SITE ADDRESS		SCALE		
Demolished Petrol Filling Station Oldham Manchester M40 2FU		Not to Scale A1		
		SURVEYED		
		R.J.		
		DRAWN		
		A.B.		
		DATE		
		08-04-2024		



PIPEWORK INSTALLATION.

1. All pipework is to be medium weight galvanized mild steel pipe to comply with BS 1387 Table 2 with screwed and socketed joints. Fittings to comply with BS 143 and BS 21:1973.

2. All suction and vent lines bedded and surrounded in 150mm sulphate resisting concrete by the general contractor.

3. Pipe sizes to be:
Suctions: 38mm (under 21m run and static lift below 3600mm)
or: 50mm (over 21m)
Vents: 50mm
Fills: 100mm

4. The pipefitter is to note that the layout is diagrammatic only and is to ensure that the most economic layout is to be made. The pipefitter is to ensure that the correct side of the pumps are fed from the correct tanks.

5. All storage tanks are to be manufactured to BS 2594:1975. and are to be installed strictly in accordance with BS:1974 and to the local petroleum officers approval. All tanks including derv are to be lowered onto a 150mm thick rc. base and surrounded in min. 150 sulphate resisting concrete all to the approval of the local petroleum officer.

6. All tanks are to have new 600 x 600 Fibrelite FL1 covers and frames, colour:red complete with Fibresec mild steel safety platforms size: 600 x 600 suspended on 4 no. m.s. galv. hangers and fitted 300mm below forecourt level. Where necessary Fibrelite FL3, 750 x 600 covers are to be fitted to offset fill m.h.s. (colour:red).

7. Size of new tanks are to be confirmed by tank manufacturer prior to commencement of the works.

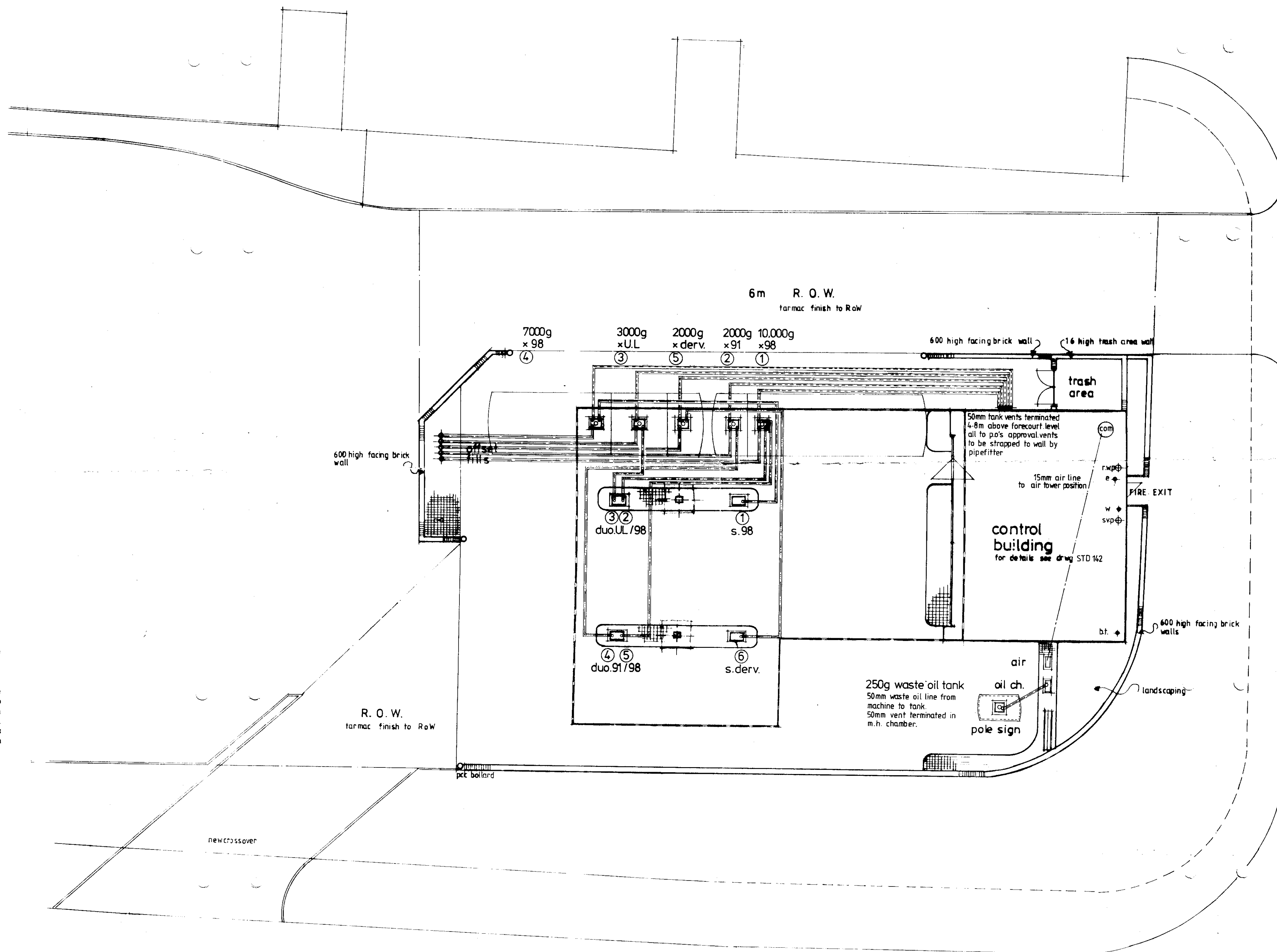
8. Pumps and self service equipment are to be supplied by the client and will be Tokheim Series 362 complete with 802 B/G control unit etc.

9. All tanks are to be tested by the pipefitters when positioned and again prior to pipefitting. All to the approval of the local petroleum officer.

10. Where existing tanks are to be made safe they are to be dealt with strictly in accordance with the local petroleum officers requirements and the Health and Safety regulations.

KEY TO LINES.

- Derv line.
- 99 or 98 Octane.
- 91 Octane line.
- Unleaded line.
- Tank vent line.
- Offsetfill line.
- Waste oil line.
- Air line



DO NOT SCALE			
AMENDMENTS			
NO.	DATE	AMENDMENT	BY
NOTES			
PROJECT Proposed Development Oldham Road Manchester			
TITLE pipework + tank layout			
SCALE 1:100	JOB NO. 1282		
DATE April 88			
DRAWN M.C.	DWG. NO. 9		
CLIENT			
CONQUEST DESIGNS LTD CONQUEST HOUSE, ARTERIAL ROAD, LANCASHIRE, MANCHESTER, M20 2BQ TELEPHONE (0256) 540000			



**Appendix B – Soil Validation Laboratory Results and
Certificates**

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/04421
Issue Number: 1

Date: 13 May, 2024

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Peter Phillips
Project Name: Reliance Street (RS)
Project Ref: 1435
Order No: 1435/LAB/PP
Date Samples Received: 02/05/24
Date Instructions Received: 03/05/24
Date Analysis Completed: 13/05/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/1	24/04421/2	24/04421/3	24/04421/4	24/04421/5	24/04421/6	24/04421/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V1	V2	V3	V4	V5	V6	V7			
Depth to Top	2.50	2.50	2.50	4.00	2.50	2.50	4.00			
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6	6A	6A	6A	6A	6A	6A			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/1	24/04421/2	24/04421/3	24/04421/4	24/04421/5	24/04421/6	24/04421/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V1	V2	V3	V4	V5	V6	V7			
Depth to Top	2.50	2.50	2.50	4.00	2.50	2.50	4.00			
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6	6A	6A	6A	6A	6A	6A			
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	0.03	0.06	0.01	0.02	0.01	0.04	0.02	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	<1	1	4	2	4	1	4	mg/kg	1	A-T-055s
Total Aliphatics _A	<1	1	4	3	4	1	4	mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<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	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	<1	1	<1	<1	2	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	1	<1	1	1	<1	2	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	2	2	2	4	1	4	mg/kg	1	A-T-055s
Total Aromatics _A	<1	4	2	5	5	1	8	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	<1	5	6	8	8	2	12	mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<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	<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	<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	<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	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1				% w/w	0.1	A-T-044
Arsenic _D ^{M#}	-	-	-	8				mg/kg	1	A-T-024s
Barium _D	-	-	-	196				mg/kg	1	A-T-024s
Beryllium _D	-	-	-	0.7				mg/kg	0.5	A-T-024s
Boron (water soluble) _D ^{M#}	-	-	-	<1.0				mg/kg	1	A-T-027s
Cadmium _D ^{M#}	-	-	-	0.7				mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	-	36				mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	-	15				mg/kg	1	A-T-024s
Lead _D ^{M#}	-	-	-	257				mg/kg	1	A-T-024s
Mercury _D	-	-	-	1.22				mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	-	16				mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	-	<1				mg/kg	1	A-T-024s
Vanadium _D ^{M#}	-	-	-	21				mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	-	125				mg/kg	5	A-T-024s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	-	-	Amosite						A-T-045
Asbestos Matrix (visual) _D	-	-	-	-						A-T-045
Asbestos Matrix (microscope) _D	-	-	-	Loose Fibres						A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	-	-	-	N/A						A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	0.012				% w/w	0.001	A-T-054

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
SVOC										
4-Bromophenyl phenyl ether _A	-	-	-	<1000				µg/kg	100	A-T-052s
Hexachlorobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Diethyl phthalate _A	-	-	-	<1000				µg/kg	100	A-T-052s
Dimethyl phthalate _A	-	-	-	<1000				µg/kg	100	A-T-052s
Dibenzofuran _A	-	-	-	<1000				µg/kg	100	A-T-052s
Carbazole _A	-	-	-	<1000				µg/kg	100	A-T-052s
Butylbenzyl phthalate _A	-	-	-	<1000				µg/kg	100	A-T-052s
Bis(2-ethylhexyl)phthalate _A	-	-	-	<5000				µg/kg	500	A-T-052s
Bis(2-chloroethoxy)methane _A	-	-	-	<1000				µg/kg	100	A-T-052s
Bis(2-chloroethyl)ether _A	-	-	-	<1000				µg/kg	100	A-T-052s
4-Nitrophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
3+4-Methylphenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
4-Chloro-3-methylphenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2-Nitrophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2-Methylphenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
1,2,4-Trichlorobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
2-Chlorophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2,6-Dinitrotoluene _A	-	-	-	<1000				µg/kg	100	A-T-052s
2,4-Dinitrotoluene _A	-	-	-	2050				µg/kg	100	A-T-052s
2,4-Dimethylphenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2,4-Dichlorophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2,4,6-Trichlorophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
2,4,5-Trichlorophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
1,4-Dichlorobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
1,3-Dichlorobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
1,2-Dichlorobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
2-Chloronaphthalene _A	-	-	-	<1000				µg/kg	100	A-T-052s
2-Methylnaphthalene _A	-	-	-	13800				µg/kg	100	A-T-052s
Acenaphthylene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Acenaphthene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Anthracene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Benzo(a)anthracene _A	-	-	-	1170				µg/kg	100	A-T-052s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
Benzo(b)fluoranthene _A	-	-	-	1470				µg/kg	100	A-T-052s
Benzo(k)fluoranthene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Benzo(a)pyrene _A	-	-	-	1210				µg/kg	100	A-T-052s
Benzo(ghi)perylene _A	-	-	-	1520				µg/kg	100	A-T-052s
Chrysene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Fluoranthene _A	-	-	-	2170				µg/kg	100	A-T-052s
Fluorene _A	-	-	-	1350				µg/kg	100	A-T-052s
Indeno(1,2,3-cd)pyrene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Phenanthrene _A	-	-	-	3220				µg/kg	100	A-T-052s
Pyrene _A	-	-	-	3030				µg/kg	100	A-T-052s
Naphthalene _A	-	-	-	5410				µg/kg	100	A-T-052s
Dibenzo(ah)anthracene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Bis(2-chloroisopropyl)ether _A	-	-	-	<1000				µg/kg	100	A-T-052s
Phenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
Pentachlorophenol _A	-	-	-	<1000				µg/kg	100	A-T-052s
n-Nitroso-n-dipropylamine _A	-	-	-	<1000				µg/kg	100	A-T-052s
n-Dioctylphthalate _A	-	-	-	<5000				µg/kg	500	A-T-052s
n-Dibutylphthalate _A	-	-	-	<1000				µg/kg	100	A-T-052s
Nitrobenzene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Isophorone _A	-	-	-	<1000				µg/kg	100	A-T-052s
Hexachloroethane _A	-	-	-	<1000				µg/kg	100	A-T-052s
Hexachlorobutadiene _A	-	-	-	<1000				µg/kg	100	A-T-052s
Perylene _A	-	-	-	<1000				µg/kg	100	A-T-052s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
VOC										
Dichlorodifluoromethane _A	-	-	-	<5				µg/kg	1	A-T-006s
Chloromethane _A	-	-	-	<50				µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Bromomethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Chloroethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Dichloromethane _A	-	-	-	<25				µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Bromochloromethane _A [#]	-	-	-	<25				µg/kg	5	A-T-006s
Chloroform _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	-	-	-	<10				µg/kg	2	A-T-006s
Benzene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Trichloroethene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Dibromomethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	-	-	-	<50				µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Toluene _A [#]	-	-	-	155				µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	-	-	-	<15				µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
Chlorobenzene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	-	-	-	<5				µg/kg	1	A-T-006s
Ethylbenzene _A [#]	-	-	-	149				µg/kg	1	A-T-006s
m & p Xylene _A [#]	-	-	-	485				µg/kg	1	A-T-006s
o-Xylene _A [#]	-	-	-	240				µg/kg	1	A-T-006s
Styrene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Bromoform _A [#]	-	-	-	<15				µg/kg	3	A-T-006s
Isopropylbenzene _A [#]	-	-	-	21				µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	-	-	-	<5				µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
Bromobenzene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	-	-	-	76				µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	-	-	-	144				µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	-	-	-	<10				µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	-	-	-	583				µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	-	-	-	9				µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	-	-	-	<5				µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	-	-	-	<30				µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	-	-	-	<10				µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	-	-	-	<15				µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	-	-	-	<5				µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	-	-	-	<15				µg/kg	3	A-T-006s

Envirolab Job Number: 24/04421

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04421/8	24/04421/9	24/04421/10	24/04421/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V2-1	V2-2	V2-3	WAC-OT						
Depth to Top	2.00	1.50	1.50							
Depth To Bottom										
Date Sampled	30-Apr-24	30-Apr-24	30-Apr-24	30-Apr-24						
Sample Type	SOIL	SOIL	SOIL	SOIL						
Sample Matrix Code	6AE	6A	6	4AE						
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	0.36				mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	0.01	0.03	0.03	10.6				mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	53				mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	63				mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	<1	<1	106				mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	<1	<1	135				mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	1	<1	<1	5090				mg/kg	1	A-T-055s
Total Aliphatics _A	1	<1	<1	5460				mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	0.04				mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	1.69				mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	292				mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	271				mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	<1	<1	214				mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	<1	<1	146				mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	<1	<1	102				mg/kg	1	A-T-055s
Total Aromatics _A	<1	<1	<1	1030				mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	1	<1	<1	6480				mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	0.04				mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	1.69				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	0.02	<0.01	<0.01	1.09				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	3.44				mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	0.02	<0.01	<0.01	1.83				mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01				mg/kg	0.01	A-T-022s

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 within the same delivery, will be disposed of **four weeks** after the 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 our scope of accreditation.
 The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client.
 A deviating sample 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.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

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.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

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 by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
 Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.
 Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

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

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

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE	Project No:	24/04421
Project:	Reliance Street (RS)	Date Received:	03/05/2024 (am)
Clients Project No:	1435	Cool Box Temperatures (°C):	18.1

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	24/04421/1	24/04421/2	24/04421/3	24/04421/4	24/04421/5	24/04421/6	24/04421/7	24/04421/8	24/04421/9	24/04421/10	24/04421/11
Client Sample No											
Client Sample ID/Depth	V1 2.50m	V2 2.50m	V3 2.50m	V4 4.00m	V5 2.50m	V6 2.50m	V7 4.00m	V2-1 2.00m	V2-2 1.50m	V2-3 1.50m	WAC-OT
Date Sampled	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24	30/04/24
A-T-004s											10/05/2024
A-T-006s											09/05/2024
A-T-007s											10/05/2024
A-T-019s											08/05/2024
A-T-022s	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024
A-T-024s											09/05/2024
A-T-025w											10/05/2024
A-T-026w											10/05/2024
A-T-026w (F)											10/05/2024
A-T-027s											09/05/2024
A-T-030s											08/05/2024
A-T-031s											09/05/2024
A-T-031w											10/05/2024
A-T-032s											09/05/2024
A-T-032w											10/05/2024
A-T-037w											10/05/2024
A-T-044	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024
A-T-045											07/05/2024
A-T-050w											10/05/2024
A-T-052s											10/05/2024
A-T-054											13/05/2024
A-T-055s	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024
A-T-ANCs											08/05/2024
Calc											07/05/2024
Calc-As Recd	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024	08/05/2024
Calc-no stones											10/05/2024
Probe (w)											10/05/2024

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

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/04560
Issue Number: 1

Date: 14 May, 2024

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Peter Phillips
Project Name: Reliance Street (RS)
Project Ref: 1435
Order No: 1435/LAB/PP
Date Samples Received: 08/05/24
Date Instructions Received: 09/05/24
Date Analysis Completed: 14/05/24

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 24/04560

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04560/1	24/04560/2	24/04560/3	24/04560/4	24/04560/5	24/04560/6	24/04560/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V8	V3-1	V3-2	V4-1	V4-2	V4-3	V4-4			
Depth to Top	2.50	0.50	0.50	1.50	2.00	1.50	1.50			
Depth To Bottom										
Date Sampled	08-May-24	07-May-24	08-May-24	08-May-24	08-May-24	08-May-24	08-May-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6A	6AB	4AB	6A	6A	6A	6			
% Stones >10mm _A	<0.1	26.2	17.0	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044

Envirolab Job Number: 24/04560

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04560/1	24/04560/2	24/04560/3	24/04560/4	24/04560/5	24/04560/6	24/04560/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V8	V3-1	V3-2	V4-1	V4-2	V4-3	V4-4			
Depth to Top	2.50	0.50	0.50	1.50	2.00	1.50	1.50			
Depth To Bottom										
Date Sampled	08-May-24	07-May-24	08-May-24	08-May-24	08-May-24	08-May-24	08-May-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6A	6AB	4AB	6A	6A	6A	6			
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<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	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{MF}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{MF}	<1	<1	7	<1	<1	<1	4	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{MF}	<1	<1	8	<1	<1	<1	5	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{MF}	7	7	10	1	<1	1	4	mg/kg	1	A-T-055s
Total Aliphatics _A	7	8	25	1	<1	1	13	mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<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	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	2	6	<1	<1	3	4	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	<1	<1	3	3	mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	2	7	<1	<1	1	4	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{MF}	<1	6	14	<1	<1	<1	3	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{MF}	4	22	38	1	<1	<1	1	mg/kg	1	A-T-055s
Total Aromatics _A	4	31	65	1	<1	6	14	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	11	39	90	2	<1	8	27	mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<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	<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	<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	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	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 24/04560

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04560/8	24/04560/9	24/04560/10	24/04560/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V4-5	Crush-1	Crush-2	Crush-3						
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	08-May-24	07-May-24	07-May-24	07-May-24						
Sample Type	SOIL	SOLID	SOIL	SOIL						
Sample Matrix Code	6A	7	4AB	4ABE						
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1				% w/w	0.1	A-T-044
pH _D ^{M#}	-	12.18 ^U	11.91	11.87				pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	0.01 ^U	0.01	0.18				g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	-	2900 ^U	2100	1900				mg/kg	200	A-T-028s
Sulphate BRE (total potential) _D	-	0.33	0.21	0.18				% w/w	0.03	A-T-024s
Sulphur BRE (total) _D	-	0.11	0.07	0.06				% w/w	0.01	A-T-024s
Arsenic _D ^{M#}	-	3 ^U	4	2				mg/kg	1	A-T-024s
Barium _D	-	73	76	40				mg/kg	1	A-T-024s
Beryllium _D	-	<0.5	<0.5	<0.5				mg/kg	0.5	A-T-024s
Boron (water soluble) _D ^{M#}	-	<1.0 ^U	<1.0	<1.0				mg/kg	1	A-T-027s
Cadmium _D ^{M#}	-	<0.5 ^U	<0.5	<0.5				mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	12 ^U	17	7				mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	20 ^U	12	8				mg/kg	1	A-T-024s
Chromium (hexavalent) _D	-	<1	<1	<1				mg/kg	1	A-T-040s
Chromium (trivalent)	-	20	12	8				mg/kg	1	Calc
Lead _D ^{M#}	-	37 ^U	44	20				mg/kg	1	A-T-024s
Mercury _D	-	<0.17	<0.17	<0.17				mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	11 ^U	10	5				mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	<1 ^U	<1	<1				mg/kg	1	A-T-024s
Vanadium _D ^{M#}	-	10 ^U	12	9				mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	62 ^U	50	46				mg/kg	5	A-T-024s

Envirolab Job Number: 24/04560

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04560/8	24/04560/9	24/04560/10	24/04560/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V4-5	Crush-1	Crush-2	Crush-3						
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	08-May-24	07-May-24	07-May-24	07-May-24						
Sample Type	SOIL	SOLID	SOIL	SOIL						
Sample Matrix Code	6A	7	4AB	4ABE						
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil [#]	-	NAD	Amosite	Amosite						A-T-045
Asbestos Matrix (visual) _o	-	-	-	-						A-T-045
Asbestos Matrix (microscope) _o	-	-	Board	Board						A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _o	-	N/A	No	No						A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _o	-	-	<0.001	<0.001				% w/w	0.001	A-T-054

Envirolab Job Number: 24/04560

Client Project Name: Reliance Street (RS)

Client Project Ref: 1435

Lab Sample ID	24/04560/8	24/04560/9	24/04560/10	24/04560/11				Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	V4-5	Crush-1	Crush-2	Crush-3						
Depth to Top	2.50									
Depth To Bottom										
Date Sampled	08-May-24	07-May-24	07-May-24	07-May-24						
Sample Type	SOIL	SOLID	SOIL	SOIL						
Sample Matrix Code	6A	7	4AB	4ABE						
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.05	<0.01	<0.01				mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.05	<0.01	<0.01				mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<10	2	<1				mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{MF}	<1	<10 ^U	7	1				mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{MF}	2	18 ^U	33	7				mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{MF}	2	35 ^U	39	14				mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{MF}	2	60 ^U	127	103				mg/kg	1	A-T-055s
Total Aliphatics _A	7	112	208	125				mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	132	10	11				mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<10	9	1				mg/kg	1	A-T-055s
Aro >C12-C16 _A	1	<10	20	5				mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{MF}	1	16 ^U	19	10				mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{MF}	2	16 ^U	39	59				mg/kg	1	A-T-055s
Total Aromatics _A	5	164	96	86				mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	12	276	304	210				mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.05 ^U	0.01	<0.01				mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.05 ^U	0.01	<0.01				mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.05 ^U	<0.01	<0.01				mg/kg	0.01	A-T-022s

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 within the same delivery, will be disposed of **four weeks** after the 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 our scope of accreditation.

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

A deviating sample 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.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "A"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
N/A	Not applicable

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.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

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 by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

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

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

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Geo2 Remediation Ltd, Coniston House,, Louisa Street, Bradford, BD10 8NE

Project No: 24/04560

Project: Reliance Street (RS)

Date Received: 09/05/2024 (am)

Clients Project No: 1435

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.

Envirolab Analysis Dates

Lab Sample ID	24/04560/1	24/04560/2	24/04560/3	24/04560/4	24/04560/5	24/04560/6	24/04560/7	24/04560/8	24/04560/9	24/04560/10	24/04560/11
Client Sample No											
Client Sample ID/Depth	V8 2.50m	V3-1 0.50m	V3-2 0.50m	V4-1 1.50m	V4-2 2.00m	V4-3 1.50m	V4-4 1.50m	V4-5 2.50m	Crush-1	Crush-2	Crush-3
Date Sampled	08/05/24	07/05/24	08/05/24	08/05/24	08/05/24	08/05/24	08/05/24	08/05/24	07/05/24	07/05/24	07/05/24
A-T-022s	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024
A-T-024s									13/05/2024	14/05/2024	14/05/2024
A-T-026s									13/05/2024	13/05/2024	13/05/2024
A-T-027s									13/05/2024	13/05/2024	13/05/2024
A-T-028s									13/05/2024	14/05/2024	14/05/2024
A-T-031s									13/05/2024	13/05/2024	13/05/2024
A-T-040s									13/05/2024	13/05/2024	13/05/2024
A-T-044	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024
A-T-045									10/05/2024	10/05/2024	10/05/2024
A-T-054										13/05/2024	13/05/2024
A-T-055s	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024
Calc									13/05/2024	13/05/2024	13/05/2024
Calc-As Recd	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024	13/05/2024

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

Final Test Report

Envirolab Job Number: 24/04421
Issue Number: 1

Date: 10-May-24

Client: Geo2 Remediation Ltd
Coniston House,
Louisa Street
Bradford
BD10 8NE

Project Manager: Peter Phillips
Project Name: Reliance Street (RS)
Project Ref: 1435
Order No: 1435/LAB/PP

Date Samples Received: 2-May-24
Date Instructions Received: 3-May-24
Date Analysis Completed: 10-May-24

Notes - Soil analysis

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

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

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

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be 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

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

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

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.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	24/04421/11						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				WAC-OT						
Depth to Top										
Depth to Bottom										
Date Sampled				30/04/2024						
Sample Type				Soil						
Sample Matrix Code				4AE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	9.87				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.36				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.08				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	NDP				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	5.21				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	26.2				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	13800				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.350				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	8.09				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	N	N	0.010	0.008	0.022	0.080	0.5	2	25
Barium	A-T-025	N	N	0.039	0.031	0.085	0.320	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.008	0.003	0.017	0.040	0.5	10	70
Copper	A-T-025	N	N	0.017	0.009	0.037	0.100	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.008	0.002	0.017	0.030	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.013	0.019	0.028	0.190	0.5	10	50
Antimony	A-T-025	N	N	0.005	0.002	0.011	0.020	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.007	0.010	0.015	0.100	4	50	200
Chloride	A-T-026	N	N	2	<1.00	4	<10	800	15000	25000
Fluoride	A-T-026	N	N	0.6	0.2	1.2	2.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	30	3	66	65	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	82	37	179	428	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.02	<0.02	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	8.7	9.3					
Conductivity (µS/cm)	A-T-037	N	N	163	75					
Mass Sample (kg)				0.207						
Dry Matter (%)	A-T-044	N	N	84.4						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										



Appendix C – Geotechnical

Environmental
Geotechnical
Specialists

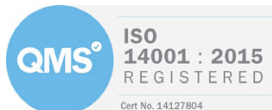


LABORATORY REPORT

job number	C/4303/24/L/6572	date	07/05/2024
site address	Oldham Road Failsworth, Manchester, M40 1EZ		
date scheduled	07/05/2024	date issued	07/05/2024
issued by	H J Letch		



Please consider the environment before printing this report.



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

<ENVIRONMENTAL> <GEOTECHNICAL>



< ENVIRONMENTAL > < GEOTECHNICAL >

Blank Page



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

Schedule of UKAS Accredited Laboratory Tests



1. CLASSIFICATION OF SOIL	BS 1377-2:1990	BS EN ISO 17892	Accredited (A)	Unaccredited (U)
1.1 Moisture / Water content determination				
i. Oven drying	Pt 2 : 3.2	Pt 1 : 2014 Pt 12 : 2018 : 5.3 / 5.5	A	
ii. Saturation m/c of chalk	Pt 2 : 3.3			U
1.2 Index Properties				
i. Liquid limit – cone penetrometer	Pt 2 : 4.3		A	
ii. Plastic limit	Pt 2 : 5.3		A	
iii. Shrinkage limit	Pt 2 : 6.3			U
iv. Linear shrinkage	Pt 2 : 6.5		A	
1.3 Particle Density				
i. Gas jar	Pt 2 : 8.2		A	
ii. Large pycnometer	Pt 2 : 8.3			U
iii. Small pycnometer	Pt 2 : 8.4	Pt 3 : 2015 : 5.1		U
1.4 Density Tests				
i. Linear measurement	Pt 2 : 7.2	Pt 2 : 2014 : 5.1	A	
ii. Immersion in water	Pt 2 : 7.3	Pt 2 : 2014 : 5.2		U
iii. Fluid / Water displacement	Pt 2 : 7.4	Pt 2 : 2014 : 5.3		U
iv. Sand replacement	Pt 9 : 2.1, 2.2			U
v. Core cutter	Pt 9 : 2.4			U
1.5 Particle Size Distribution				
i. Dry Sieve	Pt 2 : 9.2	Pt 4 : 2016 : 5.2	A	
ii. Wet Sieve	Pt 2 : 9.3	Pt 4 : 2016 : 5.2	A	
iii. Sedimentation by pipette	Pt 2 : 9.4	Pt 4 : 2016 : 5.3 / 5.4	A	
iv. Sedimentation by hydrometer	Pt 2 : 9.5			U
2. CHEMICAL TESTS	BS 1377-3:2018			
ii. Mass loss on ignition	Pt 3 : 4			U
3. COMPACTION RELATED TESTS	BS 1377-4:1990			
3.1 Dry density/moisture relationship				
i. 2.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
ii. 4.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
3.2 Moisture Condition Value				
i. Single point test	Pt 4 : 5.4			U
ii. MCV/moisture content relationship	Pt 4 : 5.5			U
3.3 California Bearing Ratio				
i. Undisturbed sample	Pt 5 : 7		A	
ii. Recompacted sample	Pt 5 : 7		A	
iii. Soaked, inc measurement of swell	Pt 5 : 7		A	
4. COMPRESSIBILITY OF SOIL	BS 1377-5:1990			
i. One dimensional consolidation	Pt 5 : 3		A	
ii. Swelling pressure test	Pt 5 : 3			U
5. SHEAR STRENGTH OF SOIL	BS 1377-7:1990			
i. Hand shear vane	Makers instructions			U
ii. Shear box (100mm square sample)	BS 1377 : Pt 7 : 4			U
iii. Triaxial – quick undrained	BS 1377 : Pt 7 : 8, 9		A	
6. PERMEABILITY				
i. Falling head	K. H. Head Vol 2			U
ii. Constant head	BS 1377 : Pt 6 : 6			U
iii Triaxial cell	BS 1377 : Pt 6 : 6			U
7. ROCK TESTS				
7.1 Classification Tests				
i. Natural moisture content	-			U
ii. Saturated moisture content	-			U
iii. Natural density	-			U
iv. Porosity	-			U
7.2 Strength Tests				
i. Point load index	ISRM '85			U
ii. Uniaxial compression test	ISRM '81			U

< ENVIRONMENTAL > < GEOTECHNICAL >



< ENVIRONMENTAL > < GEOTECHNICAL >

Disclaimer

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



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



<ENVIRONMENTAL> <GEOTECHNICAL>

INSITU TESTING RESULTS



Please consider the environment before printing this report.



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



< ENVIRONMENTAL > < GEOTECHNICAL >

Blank Page



Environmental
Geotechnical
Specialists

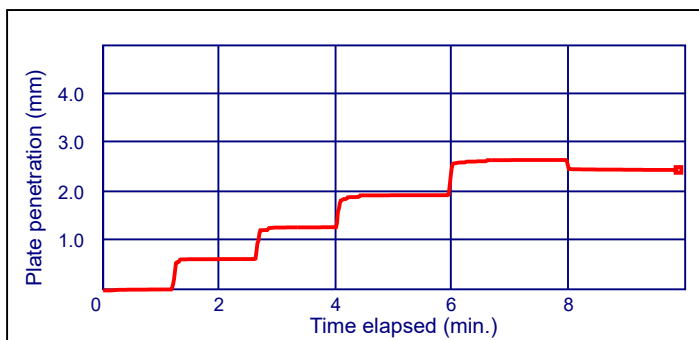
Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

TEST REPORT
PLATE LOADING TEST

Project	Reliance Street	Test No:	1
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	1	Depth (m)	0
GPS Coord's	W 2° 10' 52.8", N 53° 30' 11.6"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		



Plate Settlement (mm)	Applied Pressure (kN/m²)
0.00	0.0
0.02	42.6
0.64	75.8
1.30	114.1
1.95	156.1
2.67	200.5
2.47	0.0



Maximum Applied Pressure (kPa):	203
Maximum deformation (mm):	2.67
Modulus of subgrade reaction K (MN/m³):	89.1
K762 (MN/m³):	55.5
Estimated CBR (%):	10

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

**TEST REPORT
PLATE LOADING TEST**

Project	Reliance Street	Test No:	2
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	2	Depth (m)	0
GPS Coord's	W 2° 10' 53.0", N 53° 30' 11.3"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		

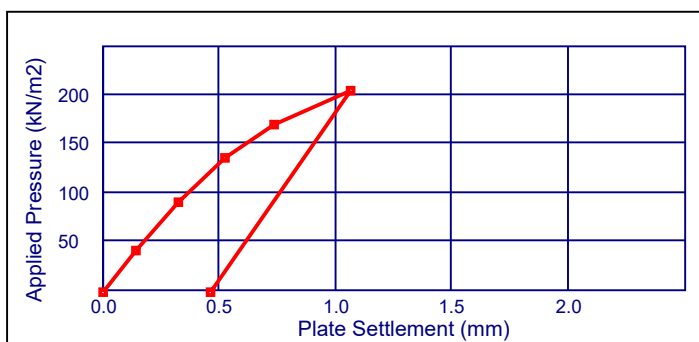
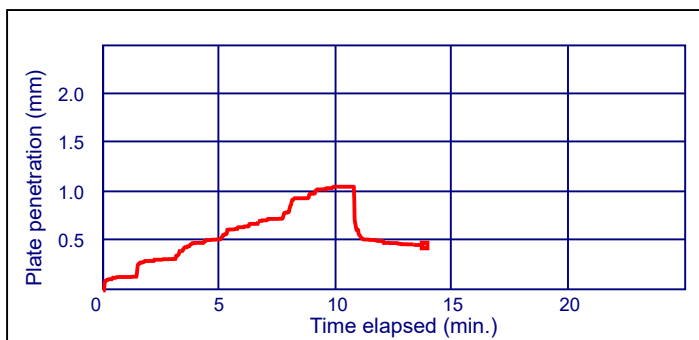


Plate Settlement (mm)	Applied Pressure (kN/m²)
0.00	0.0
0.14	42.7
0.32	92.1
0.52	137.6
0.73	171.7
1.06	206.5
0.46	0.0



Maximum Applied Pressure (kPa):	Cycle 1
Maximum deformation (mm):	209
Modulus of subgrade reaction K (MN/m³):	1.06
K762 (MN/m³):	181.1
Estimated CBR (%):	112.8
	35

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

TEST REPORT
PLATE LOADING TEST

Project	Reliance Street	Test No:	3
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	3	Depth (m)	0
GPS Coord's	W 2° 10' 53.8", N 53° 30' 11.4"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		

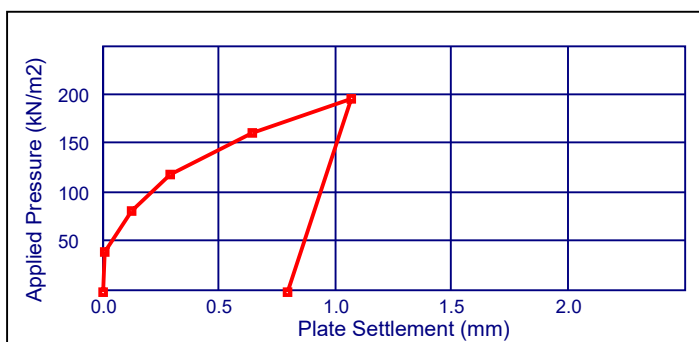
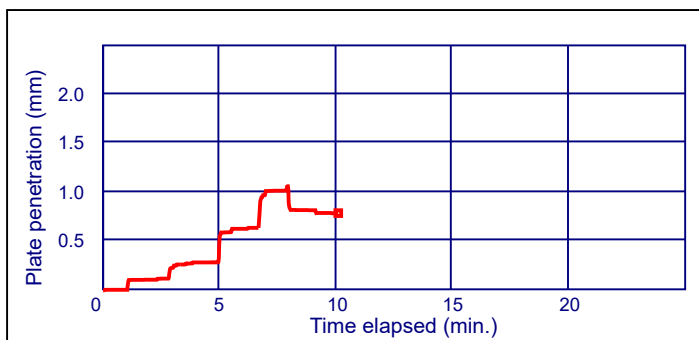


Plate Settlement (mm)	Applied Pressure (kN/m²)
0.00	0.0
0.01	41.2
0.12	83.1
0.29	120.6
0.64	163.2
1.07	198.1
0.79	0.0



Maximum Applied Pressure (kPa):
Maximum deformation (mm):
Modulus of subgrade reaction K (MN/m³):
K762 (MN/m³):
Estimated CBR (%):

Cycle 1
201
1.07
170.6
106.3
31

Comments:

Handwritten signature: H J Letch

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

**TEST REPORT
PLATE LOADING TEST**

Project	Reliance Street	Test No:	4
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	4	Depth (m)	0
GPS Coord's	W 2° 10' 53.3", N 53° 30' 11.4"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		

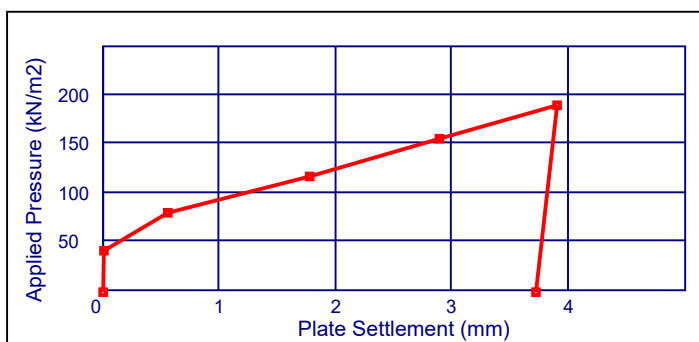
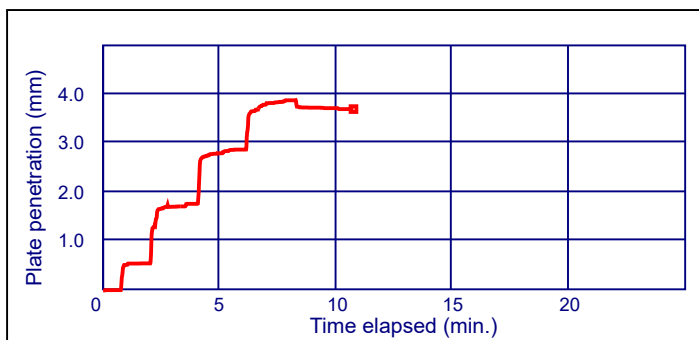


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.01	42.4
0.55	81.3
1.77	118.5
2.89	157.3
3.90	191.6
3.72	0.0



Maximum Applied Pressure (kPa):
Maximum deformation (mm):
Modulus of subgrade reaction K (MN/m3):
K762 (MN/m3):
Estimated CBR (%):

Cycle 1
194
3.90
82.0
51.1
8.8

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

**TEST REPORT
PLATE LOADING TEST**

Project	Reliance Street	Test No:	5
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	5	Depth (m)	0
GPS Coord's	W 2° 10' 53.1", N 53° 30' 11.7"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		

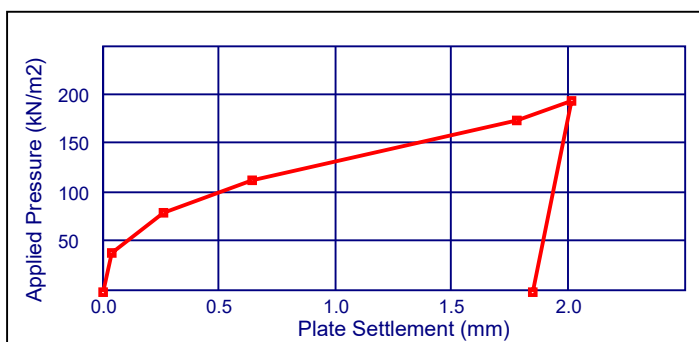
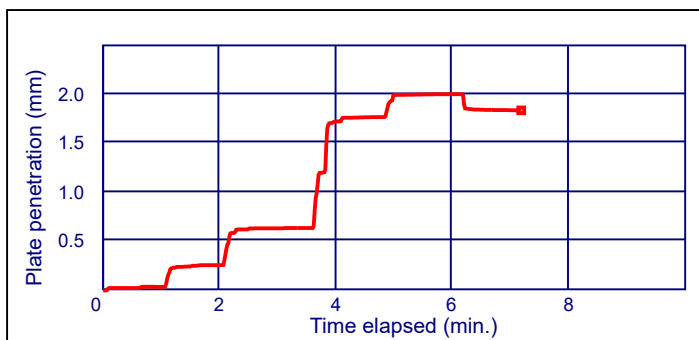


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.04	40.2
0.26	81.4
0.64	114.7
1.78	176.0
2.01	196.1
1.85	0.0



Maximum Applied Pressure (kPa):
Maximum deformation (mm):
Modulus of subgrade reaction K (MN/m3):
K762 (MN/m3):
Estimated CBR (%):

Cycle 1
199
2.01
118.1
73.6
17

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

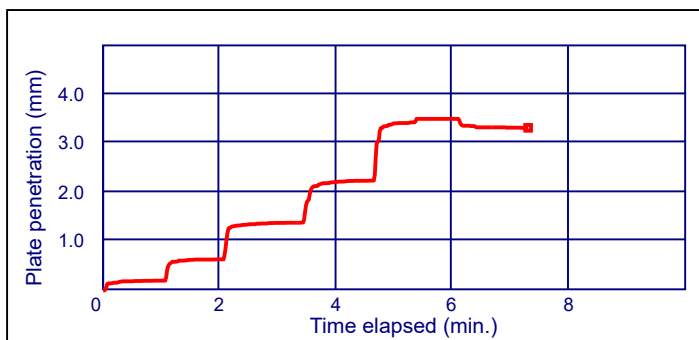
Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

**TEST REPORT
PLATE LOADING TEST**

Project	Reliance Street	Test No:	6
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	6	Depth (m)	0
GPS Coord's	W 2° 10' 53.3", N 53° 30' 11.3"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		



Plate Settlement (mm)	Applied Pressure (kN/m²)
0.00	0.0
0.20	38.7
0.64	78.0
1.39	112.7
2.25	150.0
3.52	203.2
3.33	0.0



Maximum Applied Pressure (kPa):	206
Maximum deformation (mm):	3.52
Modulus of subgrade reaction K (MN/m³):	85.0
K762 (MN/m³):	53.0
Estimated CBR (%):	9.4

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation

**TEST REPORT
PLATE LOADING TEST**

Project	Reliance Street	Test No:	7
Client	Geo2	Lab Ref No:	C/4303/24/L/6572
		Date Reported	07.05.24
		Weather Conditions	Dry
Technician	HJL/MT	Air Temperature °C	16
Date Tested	07.05.24	Plate Dia (mm)	450
Location	7	Depth (m)	0
GPS Coord's	W 2° 10' 52.7", N 53° 30' 11.6"	Reaction Type	14t
Material Type	6F2	App Weight (kg)	40
No Cycles	1		

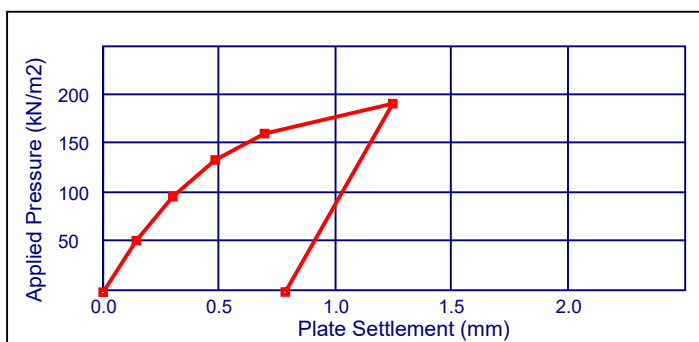
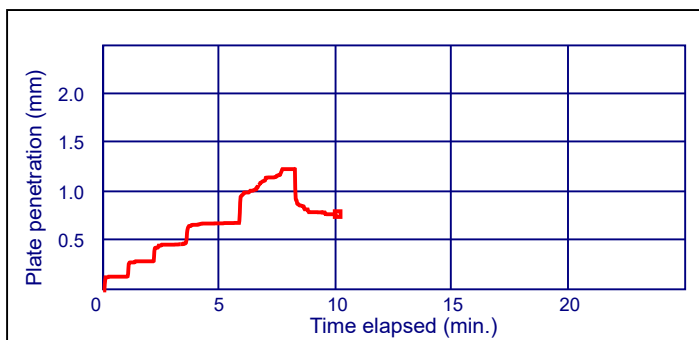


Plate Settlement (mm)	Applied Pressure (kN/m2)
0.00	0.0
0.14	52.9
0.30	97.9
0.48	135.4
0.69	162.5
1.24	193.3
0.78	0.2



Maximum Applied Pressure (kPa):	Cycle 1
Maximum deformation (mm):	196
Modulus of subgrade reaction K (MN/m3):	1.24
K762 (MN/m3):	154.9
Estimated CBR (%):	96.5
	27

Comments:

Handwritten signature

Approved Signature
Rogers Geotechnical Services
Mr H J Letch
Technical Laboratory Manager

Plate Load - Tested in accordance with BS 1377 : Part 9 C
Moisture Content - Tested in accordance with BS 1377 : P
Opinions and interpolations expressed herein are outside the scope of UKAS accreditation



< ENVIRONMENTAL > < GEOTECHNICAL >

End of Report



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

Environmental
Geotechnical
Specialists

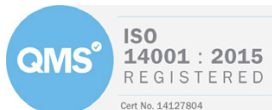


LABORATORY REPORT

job number	C/4303/24/L/6572	date	07/05/2024
site address	Oldham Road Failsworth, Manchester, M40 1EZ		
date scheduled	07/05/2024	date issued	07/05/2024
issued by	H J Letch		



Please consider the environment before printing this report.



<ENVIRONMENTAL> <GEOTECHNICAL>



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



< ENVIRONMENTAL > < GEOTECHNICAL >

Blank Page



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

Schedule of UKAS Accredited Laboratory Tests



1. CLASSIFICATION OF SOIL	BS 1377-2:1990	BS EN ISO 17892	Accredited (A)	Unaccredited (U)
1.1 Moisture / Water content determination				
i. Oven drying	Pt 2 : 3.2	Pt 1 : 2014 Pt 12 : 2018 : 5.3 / 5.5	A	
ii. Saturation m/c of chalk	Pt 2 : 3.3			U
1.2 Index Properties				
i. Liquid limit – cone penetrometer	Pt 2 : 4.3		A	
ii. Plastic limit	Pt 2 : 5.3		A	
iii. Shrinkage limit	Pt 2 : 6.3			U
iv. Linear shrinkage	Pt 2 : 6.5		A	
1.3 Particle Density				
i. Gas jar	Pt 2 : 8.2		A	
ii. Large pycnometer	Pt 2 : 8.3			U
iii. Small pycnometer	Pt 2 : 8.4	Pt 3 : 2015 : 5.1		U
1.4 Density Tests				
i. Linear measurement	Pt 2 : 7.2	Pt 2 : 2014 : 5.1	A	
ii. Immersion in water	Pt 2 : 7.3	Pt 2 : 2014 : 5.2		U
iii. Fluid / Water displacement	Pt 2 : 7.4	Pt 2 : 2014 : 5.3		U
iv. Sand replacement	Pt 9 : 2.1, 2.2			U
v. Core cutter	Pt 9 : 2.4			U
1.5 Particle Size Distribution				
i. Dry Sieve	Pt 2 : 9.2	Pt 4 : 2016 : 5.2	A	
ii. Wet Sieve	Pt 2 : 9.3	Pt 4 : 2016 : 5.2	A	
iii. Sedimentation by pipette	Pt 2 : 9.4	Pt 4 : 2016 : 5.3 / 5.4	A	
iv. Sedimentation by hydrometer	Pt 2 : 9.5			U
2. CHEMICAL TESTS	BS 1377-3:2018			
ii. Mass loss on ignition	Pt 3 : 4			U
3. COMPACTION RELATED TESTS	BS 1377-4:1990			
3.1 Dry density/moisture relationship				
i. 2.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
ii. 4.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
3.2 Moisture Condition Value				
i. Single point test	Pt 4 : 5.4			U
ii. MCV/moisture content relationship	Pt 4 : 5.5			U
3.3 California Bearing Ratio				
i. Undisturbed sample	Pt 5 : 7		A	
ii. Recompacted sample	Pt 5 : 7		A	
iii. Soaked, inc measurement of swell	Pt 5 : 7		A	
4. COMPRESSIBILITY OF SOIL	BS 1377-5:1990			
i. One dimensional consolidation	Pt 5 : 3		A	
ii. Swelling pressure test	Pt 5 : 3			U
5. SHEAR STRENGTH OF SOIL	BS 1377-7:1990			
i. Hand shear vane	Makers instructions			U
ii. Shear box (100mm square sample)	BS 1377 : Pt 7 : 4			U
iii. Triaxial – quick undrained	BS 1377 : Pt 7 : 8, 9		A	
6. PERMEABILITY				
i. Falling head	K. H. Head Vol 2			U
ii. Constant head	BS 1377 : Pt 6 : 6			U
iii Triaxial cell	BS 1377 : Pt 6 : 6			U
7. ROCK TESTS				
7.1 Classification Tests				
i. Natural moisture content	-			U
ii. Saturated moisture content	-			U
iii. Natural density	-			U
iv. Porosity	-			U
7.2 Strength Tests				
i. Point load index	ISRM '85			U
ii. Uniaxial compression test	ISRM '81			U

< ENVIRONMENTAL > < GEOTECHNICAL >



< ENVIRONMENTAL > < GEOTECHNICAL >

Disclaimer

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



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



<ENVIRONMENTAL> <GEOTECHNICAL>

GEOTECHNICAL TESTING RESULTS



Please consider the environment before printing this report.



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



< ENVIRONMENTAL > < GEOTECHNICAL >

Blank Page



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



PARTICLE SIZE DISTRIBUTION

Job Ref C/4303/24/L/6665

Borehole/Pit No. Sample 1

Site Name Reliance Street and Oldham Road

Sample No. 1

Soil Description Grey sandy GRAVEL.

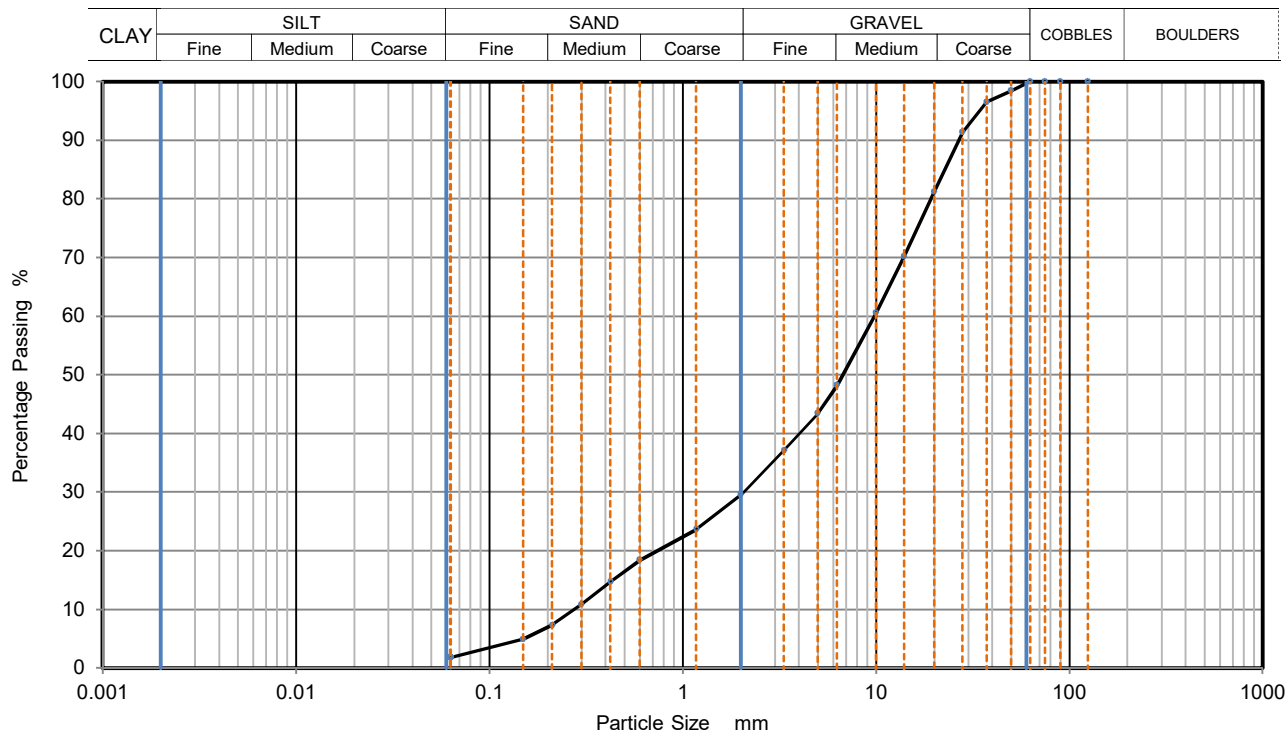
Depth, m 0.00

Specimen Reference 1 Specimen Depth 0 m

Sample Type B

Test Method ISO 17892 -4, by sieving on pre-dried or dry sample

KeyLAB ID RGS_202405100



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	97		
28	91		
20	81		
14	70		
10	61		
6.3	48		
5	43		
3.35	37		
2	30		
1.18	24		
0.6	18		
0.425	15		
0.3	11		
0.212	7		
0.15	5		
0.063	2		

Dry Mass of sample, g 11165

Sample Proportions	% dry mass
Very coarse	0
Gravel	70
Sand	28
Fines <0.063mm	2

Grading Analysis		
D ₁₀₀	mm	63
D ₆₀	mm	9.82
D ₃₀	mm	2.08
D ₁₀	mm	0.277

Remarks

Preparation and testing in accordance with BS EN ISO 17892 - 4, unless noted below

Test performance date: 10/05/2024

Operator

Checked

Approved

Sheet printed

Fig 1

Harry

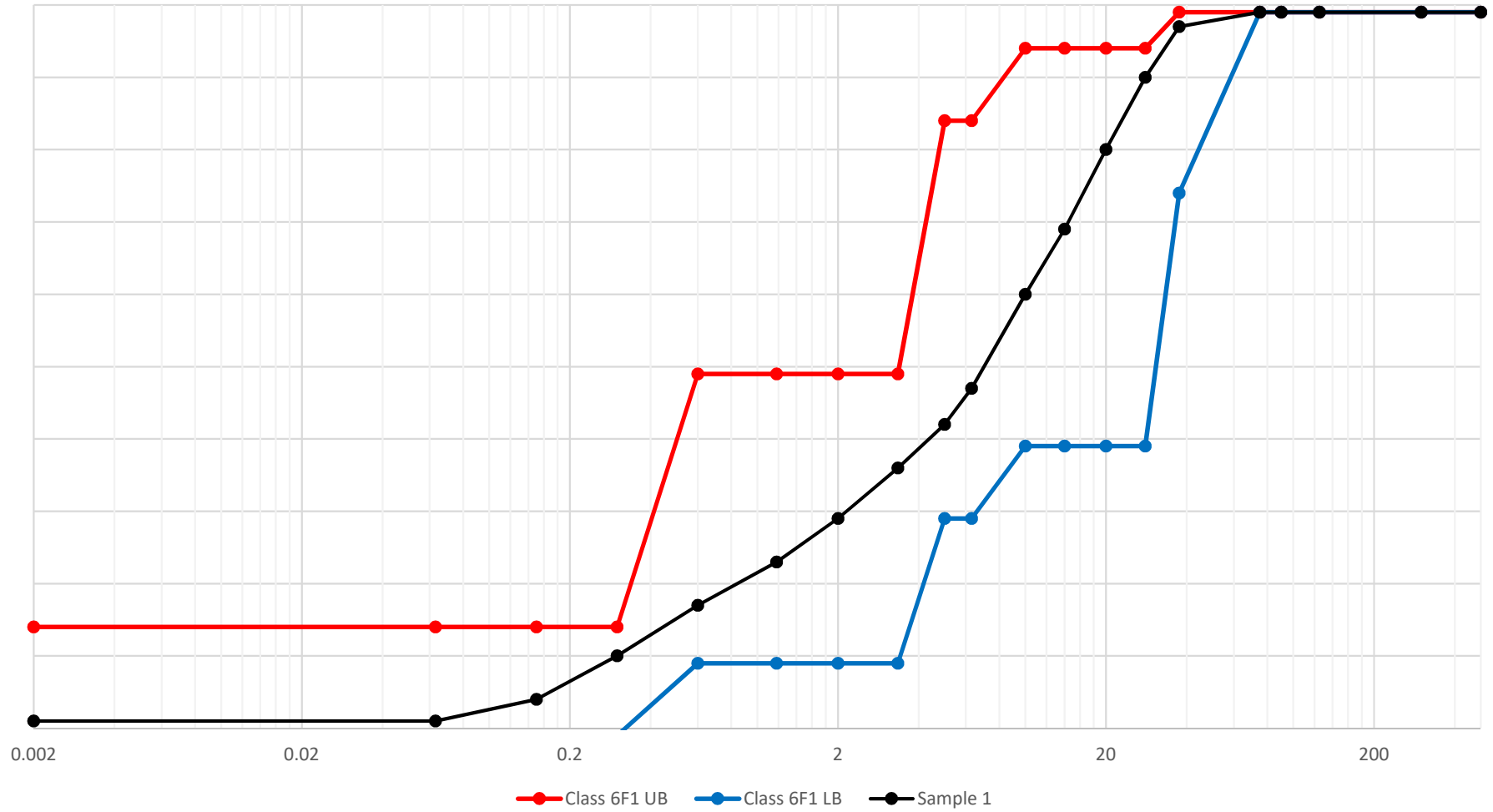
Harry

Harry

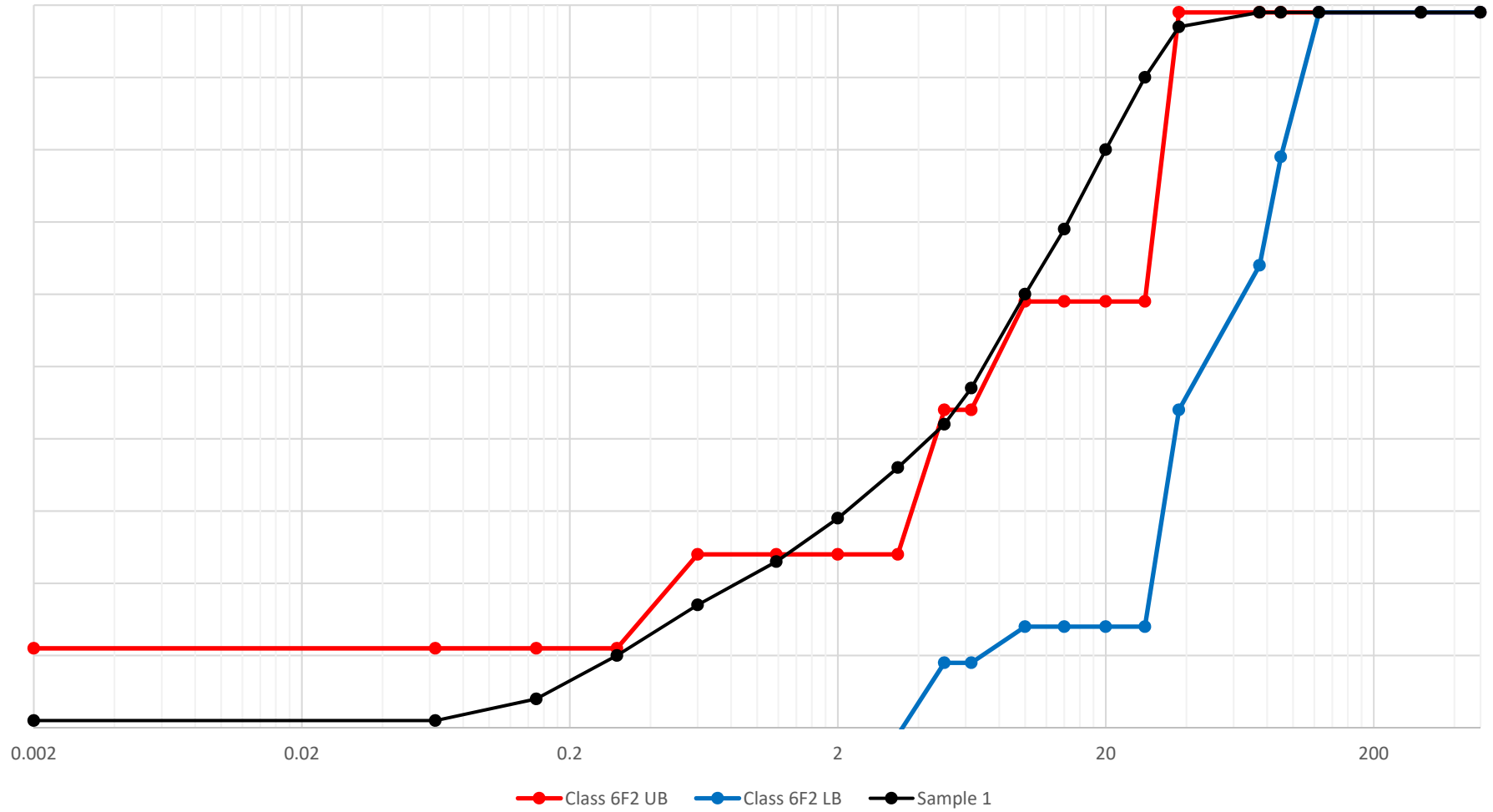
10/05/2024

Sheet 1

Series 600 Class 6F1



Series 600 Class 6F2





< ENVIRONMENTAL > < GEOTECHNICAL >

End of Report



Environmental
Geotechnical
Specialists

Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864

The top half of the page features a decorative background of orange wavy lines, resembling a topographic map, on a white background.

Appendix D – Waste Exemption

Waste exemption registration WEX399788

We confirm that the details you have entered, as shown below, are now on the exemptions register. Your registration should show on the public register within 24 hours. Your registration details, including contact, site and business addresses are below.

This document is not a permit. Exemptions may have ceased or been revoked.

To check whether these exemptions are still valid, check the company's registration WEX399788 on the public register of waste exemptions:
<https://environment.data.gov.uk/public-register/view/search-waste-exemptions>

Business responsibilities

The business or organisation responsible for carrying out the exempt waste operations agrees to:

- comply with all limits on waste types and quantities
- comply with all conditions governing how waste must be stored, handled and treated
- carry out the operations without endangering human health or harming the environment

For the operations to remain exempt they must be carried out without:

- causing risk to water, air, soil, plants or animals
- causing a nuisance through noise and odours
- negatively affecting the countryside or places of special interest

In sensitive locations, extra controls may be needed over and above those set out in the exemptions to make sure this happens.

Registration details

Registration details

Reference Number	WEX399788
Date registered	25 March 2024

Waste exemptions

U1: Use of waste in construction	Expires on 24 March 2027
----------------------------------	--------------------------

Your contact details

Your name	Peter Phillips
Your telephone number	01132575397
Your email address	peter.phillips@geo2.co.uk

Waste operator details

Business or organisation type	Limited company
Waste operator responsible for these waste operations	GEO2 REMEDIATION LIMITED

Address of the Waste operator

CONISTON
LOUISA STREET
BRADFORD
BD10 8NE

Waste operations contact**Name**

Peter Phillips

Position

Project Manager

Telephone number

01132575397

Email

peter.phillips@geo2.co.uk

Address

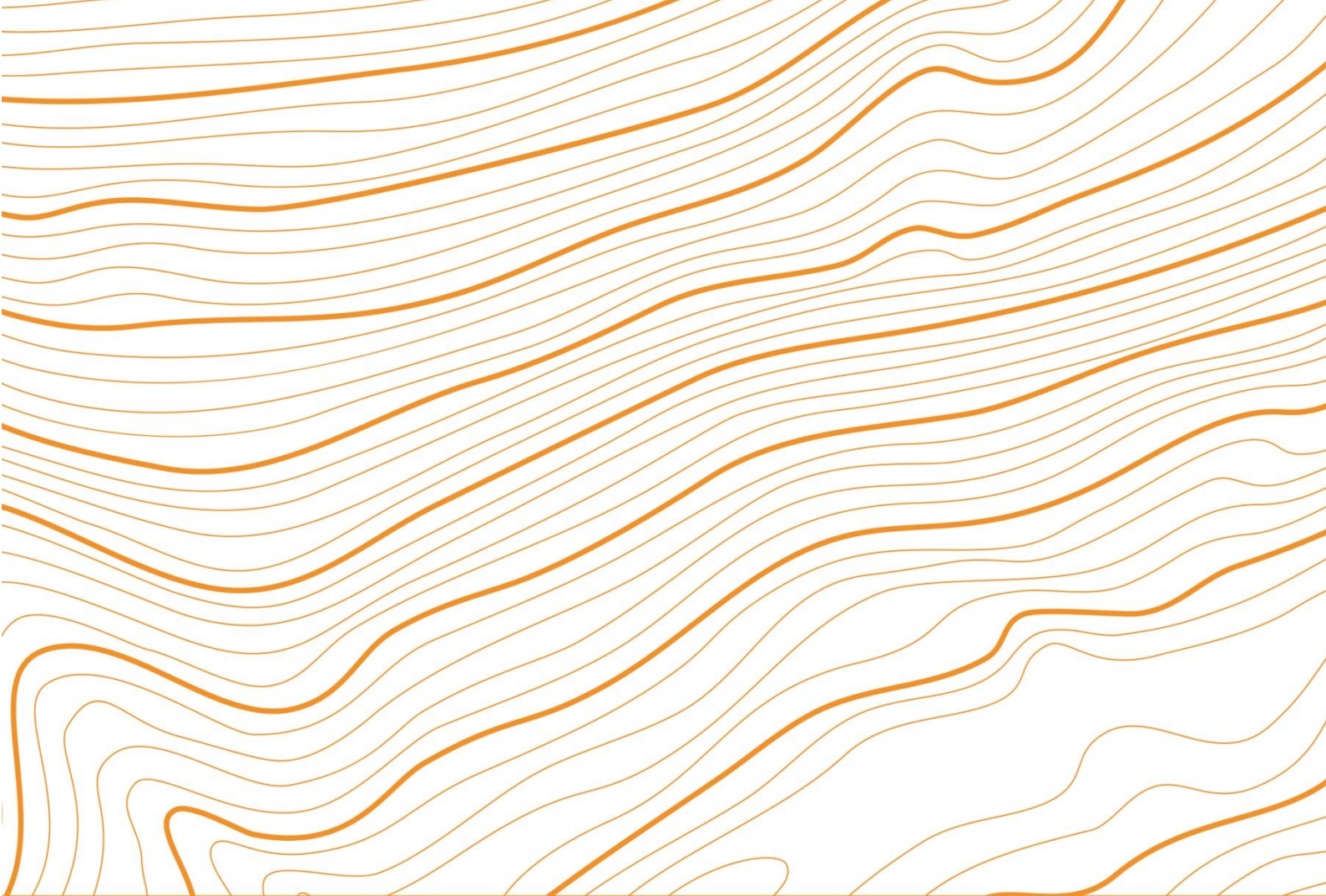
CONISTON
LOUISA STREET
BRADFORD
BD10 8NE

Waste operation details**Grid reference**

SD 88074 00733

Site details

Demolished historical petrol filling station
immediately north-west of the junction
between Reliance Street and Oldham Road.



Appendix E – Photolog

1435 – Oldham Road – Photographic Survey 1

<p>Image 1: Pre-works site condition</p>  A wide-angle photograph of a large, flat, muddy construction site. The ground is dark and wet, with patches of green grass and some debris. In the background, there are several red brick buildings and a white fence.	<p>Image 2: Pre-works site condition</p>  A photograph of the same construction site, showing a different angle. The ground is muddy and wet, with some green grass and debris. In the background, there are red brick buildings and a white fence.	<p>Image 3: Pre-works site condition</p>  A photograph of the construction site, showing a different angle. The ground is muddy and wet, with some green grass and debris. In the background, there are red brick buildings and a white fence.
<p>Image 4: Pre-works site condition</p>  A photograph of the construction site, showing a different angle. The ground is muddy and wet, with some green grass and debris. In the background, there are red brick buildings and a white fence.	<p>Image 5: Pre-works site condition</p>  A photograph of the construction site, showing a different angle. The ground is muddy and wet, with some green grass and debris. In the background, there are red brick buildings and a white fence.	<p>Image 6: Pre-works site condition</p>  A photograph of the construction site, showing a different angle. The ground is muddy and wet, with some green grass and debris. In the background, there are red brick buildings and a white fence.

1435 – Oldham Road – Photographic Survey 2

Image 7: Commenced breaking out



Image 8: Tank excavation



Image 9: Tank exposure



Image 10: Tank foams



Image 11: Crushing works



Image 12: Continued crushing



1435 – Oldham Road – Photographic Survey 3

Image 7: Removed waste oil tank



Image 8: Removed Waste oil tank



Image 9: Removal of fuel lines

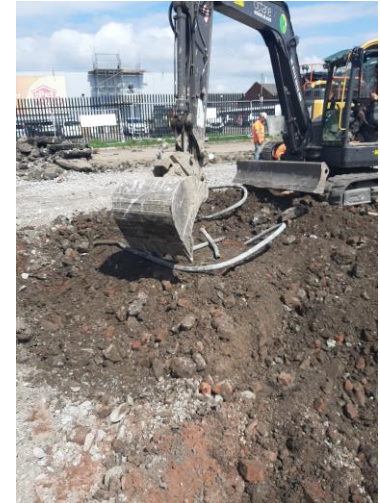


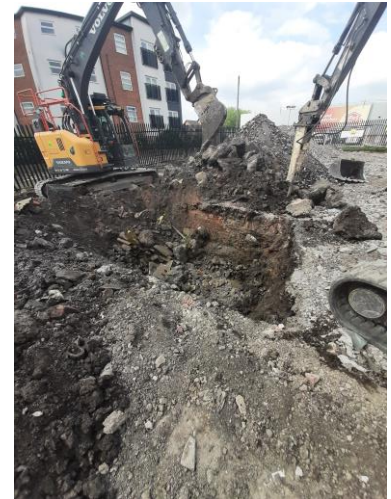
Image 10: Vac tanker removal of interceptor contents



Image 11: Breaking out of interceptor



Image 12: Removal of interceptor



1435 – Oldham Road – Photographic Survey 4

Image 13: CBR plate testing



Image 14: Off-site disposal works



Image 15: Finished site condition



Image 16: Finished site condition



Image 17: Finished site condition



Image 18: Finished site condition

