



AITKEN LABORATORIES LTD

Site
KILDONAN STREET, COATBRIDGE
Borehole Number
RC101

Machine : D17 Flush : Air and Water Core Dia: 76 mm Method : Rotary Open Hole and Core	Casing Diameter 125mm cased to 22.00m	Ground Level (mOD)	Client	Job Number N051
	Location	Dates 08/07/2021- 09/07/2021	Engineer G3 CONSULTING ENGINEERS LIMITED	Sheet 5/5

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							40.00	Complete at 40.00m		

Remarks	Scale (approx)	Logged By
	1:50	JH/RB
	Figure No. N051.RC101	



AITKEN LABORATORIES LTD

Site
KILDONAN STREET, COATBRIDGE

Borehole Number
RC102

Machine : D17 Flush : Air and Water Core Dia: 76 mm Method : Rotary Open Hole and Core	Casing Diameter 125mm cased to 24.00m	Ground Level (mOD)	Client	Job Number N051
	Location	Dates 07/07/2021-08/07/2021	Engineer G3 CONSULTING ENGINEERS LIMITED	Sheet 1/5

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							(10.00)	#MADE GROUND		

Remarks Driller records loss of air between 32.60m and 33.00m # Denotes driller's description	Scale (approx)	Logged By
	1:50	JH/RB
	Figure No. N051.RC102	



AITKEN LABORATORIES LTD

Site
KILDONAN STREET, COATBRIDGE

Borehole Number
RC102

Machine : D17
 Flush : Air and Water
 Core Dia: 76 mm
 Method : Rotary Open Hole and Core

Casing Diameter
125mm cased to 24.00m

Ground Level (mOD)

Client

Job Number
N051

Location

Dates
07/07/2021-08/07/2021

Engineer
G3 CONSULTING ENGINEERS LIMITED

Sheet
2/5

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							10.00	#CLAY		
							(14.00)			

Remarks
 Driller records loss of air between 32.60m and 33.00m
 # Denotes driller's description

Scale (approx)
1:50

Logged By
JH/RB

Figure No.
N051.RC102



AITKEN LABORATORIES LTD

Site
KILDONAN STREET, COATBRIDGE
Borehole Number
RC102

Machine : D17 Flush : Air and Water Core Dia: 76 mm Method : Rotary Open Hole and Core	Casing Diameter 125mm cased to 24.00m	Ground Level (mOD)	Client	Job Number N051
	Location	Dates 07/07/2021- 08/07/2021	Engineer G3 CONSULTING ENGINEERS LIMITED	Sheet 3/5

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
25.00	100	14	0	29			24.00	#MUDSTONE		
							(1.00)			
							25.00	Medium strong thin bedded pale grey to grey banded fine SANDSTONE, faintly weathered and ironstained, closely spaced rough undular tight to slightly open at 14 degrees, very closely spaced rough irregular slightly open to open stained and with slight clay films up to 2mm fractures at 56 degrees and 84 degrees		
27.00	98	19	11	18			25.96	Weak very thin bedded grey finely banded sandy SILTSTONE, faintly weathered, very closely spaced rough to smooth undular to planar tight bedding at 14 degrees, closely spaced rough undular tight to slightly open fractures at 86 degrees		
							(0.65)			
							26.61	Medium strong very thin bedded grey fine SANDSTONE with occasional thin siltstone bands, faintly weathered and ironstained, very closely spaced rough undular tight bedding at 14 degrees, very closely spaced extensive rough undular tight to slightly open fractures with up to 3mm clay lining at 87 degrees		
29.00							27.66	Medium strong thin bedded grey finely banded SILTSTONE, occasional sandy bedding, fossil plant stems, closely spaced smooth planar tight bedding at 4 degrees to 12 degrees, closely spaced rough undular tight fractures at 64 degrees and 84 degrees		
							(0.93)			
							28.59	Weak very thin bedded grey MUDSTONE, fresh, very closely spaced smooth undular tight bedding at 4 degrees, closely spaced rough to smooth irregular tight fractures at 40 degrees to 85 degrees		
							29.00	Medium strong occasional weak bands at 29.26m to 29.62m, thin bedded grey finely banded SILTSTONE, fossil plant remains, fresh, closely spaced smooth planar tight bedding at 9 degrees, widely spaced rough to smooth undular tight fractures at 36 degrees and from 74 degrees to 90 degrees		

Remarks Driller records loss of air between 32.60m and 33.00m # Denotes driller's description	Scale (approx)	Logged By
	1:50	JH/RB
	Figure No. N051.RC102	



AITKEN LABORATORIES LTD

Site
KILDONAN STREET, COATBRIDGE

Borehole Number
RC102

Machine : D17		Casing Diameter		Ground Level (mOD)		Client		Job Number	
Flush : Air and Water		125mm cased to 24.00m						N051	
Core Dia: 76 mm		Location		Dates		Engineer		Sheet	
Method : Rotary Open Hole and Core				07/07/2021-08/07/2021		G3 CONSULTING ENGINEERS LIMITED		4/5	

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
31.50	100	58	35	13			(2.69)		XXXXXX	
							31.69	Medium strong, occasional strong bands thin banded pale grey fine SANDSTONE, fresh, closely spaced rough undular tight bedding at 4 degrees to 20 degrees, medium spaced rough undular to tight fractures at 72 degrees and 86 degrees, occasional calcite veinlets up to 4mm thick		
							32.65 (0.35)	CAVITY recorded by driller, loss of flush		
35.00	69	29	4	19			33.00	Very weak disturbed bedded black and grey possible WASTE or collapsed ground with 0.27m coal at top over mixed granulated coal, seatclay, siltstone and sandstone		
							34.16	Weak poorly bedded grey silty SEATCLAY, fossil rootlets and plant stems, fresh	XXXXXX	
							34.27			
							34.39			
							35.12 (0.17)	Medium strong poorly bedded grey banded fine SANDSTONE, silty base, fossil rootlets, fresh	XXXXXX	
35.29	Medium strong very thin bedded grey SILTSTONE, fossil plant stems, ironstone nodules, fresh, closely spaced rough undular tight bedding at 6 degrees, medium spaced rough irregular tight fractures at 74 degrees	XXXXXX								
38.00	69	32	8	14			35.72 (0.17)	Very weak disturbed bedded dark grey MUDSTONE, slightly ironstained, very closely spaced polished irregular tight bedding, possible collapsed or faulted strata		
							35.89	Friable black bright COAL, fresh, mainly intact core, closely spaced smooth planar tight bedding at 4 degrees		
								Friable black bright crushed COAL, fresh, not intact core		
							37.04	Very weak disturbed bedded grey seatclay with occasional crushed coal and sandstone, possible WASTE		
							37.84	Weak occasional medium strong very thin poorly bedded pale grey fine SANDSTONE, fresh, very closely spaced rough undular tight bedding at 6 degrees, very closely spaced rough irregular tight fractures at 60 degrees		
40.00	88	64	0	17			37.84	Medium strong with occasional weak bands, very thin bedded grey finely banded sandy SILTSTONE, fossil plant stems, fresh, very closely spaced rough to smooth planar tight bedding at 8 degrees to 30 degrees, medium spaced rough irregular tight fractures at 64 degrees	XXXXXX	

Remarks Driller records loss of air between 32.60m and 33.00m # Denotes driller's description								Scale (approx)	Logged By
								1:50	JH/RB
								Figure No. N051.RC102	



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Site
KILDONAN STREET, COATBRIDGE
Borehole Number
RC102

Machine : D17 Flush : Air and Water Core Dia: 76 mm Method : Rotary Open Hole and Core	Casing Diameter 125mm cased to 24.00m	Ground Level (mOD)	Client	Job Number N051
	Location	Dates 07/07/2021 - 08/07/2021	Engineer G3 CONSULTING ENGINEERS LIMITED	Sheet 5/5

Depth (m)	TCR (%)	SCR (%)	RQD (%)	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
							40.00	Complete at 40.00m		

Remarks	Scale (approx)	Logged By
	1:50	JH/RB
	Figure No. N051.RC102	

Appendix 2

Laboratory Testing References

Laboratory Test	Standard Specification in Accordance with
Moisture Content	BS 1377: Part 2 1990: Clause 3.2
Liquid Limit	BS 1377: Part 2 1990: Clause 4.3
Plastic Limit	BS 1377: Part 2 1990: Clause 5.3
Plasticity Index and Liquidity Index	BS 1377: Part 2 1990: Clause 5.4
Density Measurement	BS 1377: Part 2 1990: Clause 7.2
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.2
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.3
Particle Size Distribution	BS 1377: Part 2 1990: Clause 9.5
Sulphate Content of Soil and Groundwater *	BS 1377: Part 2 1990: Clause 5.6
pH *	BS 1377: Part 2 1990: Clause 9
California Bearing Ratio	BS 1377: Part 2 1990: Clause 7
One Dimension Consolidation Properties	BS 1377: Part 5 1990: Clause 3
Undrained Shear Strength, Triaxial Compression	BS 1377: Part 2 1990: Clause 8
Undrained Shear Strength, Triaxial Compression (Multi-stage)	BS 1377: Part 2 1990: Clause 9
Dry Density/Moisture Content Relationship (2.5kg Rammer)	BS1377: Part 4 1990: Clause 3.3.3.4
Dry Density/Moisture Content Relationship (4.5kg Rammer)	BS1377: Part 4 1990: Clause 3.5.3.6

***Tests marked with asterisk are not UKAS Accredited.**



AITKEN LABORATORIES LTD

Site :
Kildonan Street, Coatbridge

Job no.
N051

Client :
Collective Architecture

Table no.

Engineer :
G3 Consulting Engineers Limited

1

Geotechnical Test Results

Sample Identification

Exp. Point no.	Sample Type/no.	Depth (m)	Moisture Content (%)	Natural Wet Density (Mg/m ³)	Natural Dry Density (Mg/m ³)	<425 (µm)	LL (%)	PL (%)	PI (%)	Average Shear Strength (kPa)	Apparent Cohesion (kPa)	Angle of Shearing Resistance (degrees)	Other Testing and Remarks
CP101	U	5.00	17.2	2.17	1.85					72	61	2	
CP101	B	5.50	21.3							61	53	2	PSD
CP102	U	6.50	16.2	2.21	1.90					49	42	2	
WS101	U	2.00	15.5	2.18	1.89					60	55	1	
WS102	U	3.00	30.3	1.88	1.44								PSD
WS102	B	4.00	17.6										
WS103	U	3.00	30.3	1.97	1.51					33	30	1	

Notes : 1. Tested in accordance with BS1377

2.

3.

Originator Approved

LK AD

Page

1 of 1



Site : Kildonan Street, Coatbridge
 Client : Collective Architecture
 Engineer : G3 Consulting Engineers Limited

Sheet
1 of 1
 Figure No.
N051.CP101.U.TXL

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

Exp. Point	Depth (m)	Sample Type / Ref	Non-Engineering Description
CP101	5.00	U	Grey gravelly sandy clay

READ No	AREA cm ²	STRAIN %	STRAIN mm	PROVING RING DIAL Divs.	APPLIED LOAD kN			DEVIATOR STRESS kN/m ²		
0	81.63	0.0	0		0.00	0.00	0.00	0	0	0
1	82.46	1.0	2	25	0.16			19		
2	83.30	2.0	4	45	0.34			40		
3	84.16	3.0	6	58	0.45			54		
4	85.04	4.0	8	75	0.60			71		
5	85.94	5.0	10	84	0.68			79		
6	86.85	6.0	12	93	0.76			88		
7	87.79	7.0	14	101	0.83			95		
8	88.74	8.0	16	109	0.90			102		
9	89.72	9.0	18	116	0.96			107		
10	90.72	10.0	20	123	1.03			113		
11	91.74	11.0	22	129	1.08			118		
12	92.78	12.0	24	134	1.12			121		
13	93.85	13.0	26	140	1.18			125		
14	94.95	14.0	28	146	1.23			129		
15	96.06	15.0	30	151	1.27			133		
16	97.21	16.0	32	165		1.33			137	
17	98.38	17.0	34	170		1.38			140	
18	99.58	18.0	36	177		1.44			145	
19	100.82	19.0	38	199		1.54			153	
20	102.08	20.0	40	203		1.57			154	
21	103.37	21.0	42	208		1.62			156	

Specimen/Stage No : 1 2 3

Cell Pressures : 100 200 400 kN/m²

Weight of Specimen : 3541.8 gms.

Diameter of Specimen : 101.95 m.m.

Height of Specimen : 199.7 m.m.

Weight of Wet Sample & Tin : 609.2 gms.

Weight of Dry Sample & Tin : 525.9 gms.

Weight of Tin : 41.5 gms.

Moisture Content : 17.2 % dry weight

Bulk Density : 2.17 Mg/m³

Dry Density : 1.85 Mg/m³

Load Factor : 8.84 N/Div.

Pressure Zero : 7 14 25 Div.

Shear Strength : 66 72 78 kN/m²

Strain at Failure : 15 18 21 %

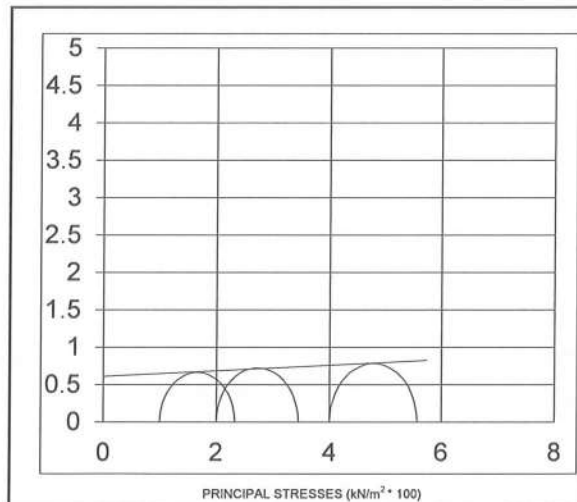
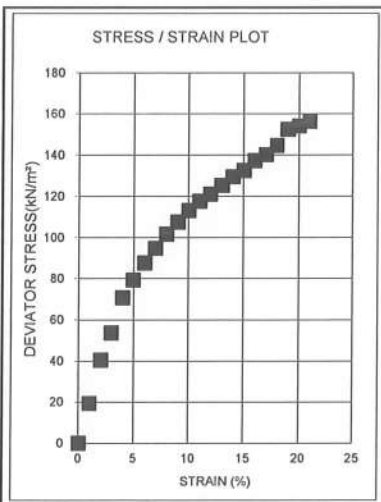
Rate of Strain : 2 2 2 %/min.

Average Shear Strength : 72 kN/m²

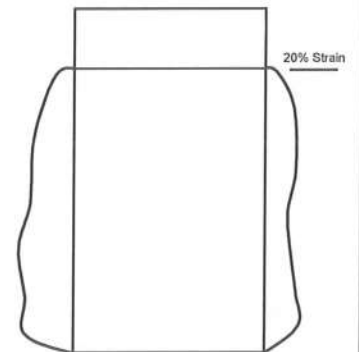
Apparent Cohesion : 61 kN/m²

Angle of Shear Resistance : 2 Degrees

102mm Diameter Multi-stage test - (one specimen)



Failure Diagram



Type of Failure : Plastic

Notes :

Tested in accordance with BS1377 : Part 7 : 1990 clauses 8 and 9.
 Membrane Type : Standard Latex - 0.35mm. thick.
 Preparation Method : Vertical Extrusion

Originator

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Site : Kildonan Street, Coatbridge
Client : Collective Architecture
Engineer : G3 Consulting Engineers Limited

Sheet
1 of 1
Figure No.
N051.CP102.U.TXL

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

Exp. Point	Depth (m)	Sample Type / Ref	Non-Engineering Description
CP102	6.50	U	Grey gravelly sandy clay

READ No	AREA cm ²	STRAIN %	STRAIN mm	PROVING RING DIAL Divs.	APPLIED LOAD kN			DEVIATOR STRESS kN/m ²		
0	80.10	0.0	0		0.00	0.00	0.00	0	0	0
1	80.91	1.0	2	25	0.14			17		
2	81.73	2.0	4	36	0.24			29		
3	82.57	3.0	6	46	0.33			40		
4	83.43	4.0	8	56	0.42			50		
5	84.30	5.0	10	65	0.50			59		
6	85.19	6.0	12	72	0.56			65		
7	86.11	7.0	14	80	0.63			73		
8	87.04	8.0	16	89	0.71			81		
9	87.99	9.0	18	95	0.76			86		
10	88.97	10.0	20	102	0.82			92		
11	89.96	11.0	22	108	0.88			97		
12	90.98	12.0	24	114	0.93			102		
13	92.02	13.0	26	120	0.98			107		
14	93.09	13.9	28	125	1.03			110		
15	94.18	14.9	30	129	1.06			113		
16	95.29	15.9	32	141		1.11			117	
17	96.43	16.9	34	146		1.16			120	
18	97.60	17.9	36	152		1.21			124	
19	98.80	18.9	38	167		1.26			127	
20	100.03	19.9	40	171		1.29			129	
21	101.29	20.9	42	176		1.33			132	

Specimen/Stage No : 1 2 3

Cell Pressures : 100 200 400 kN/m²

Weight of Specimen : 3554.1 gms.

Diameter of Specimen : 100.99 m.m.

Height of Specimen : 200.76 m.m.

Weight of Wet Sample & Tin : 511 gms.

Weight of Dry Sample & Tin : 445.6 gms.

Weight of Tin : 41.2 gms.

Moisture Content : 16.2 % dry weight

Bulk Density : 2.21 Mg/m³

Dry Density : 1.90 Mg/m³

Load Factor : 8.84 N/Div.

Pressure Zero : 9 15 25 Div.

Shear Strength : 56 62 66 kN/m²

Strain at Failure : 15 18 21 %

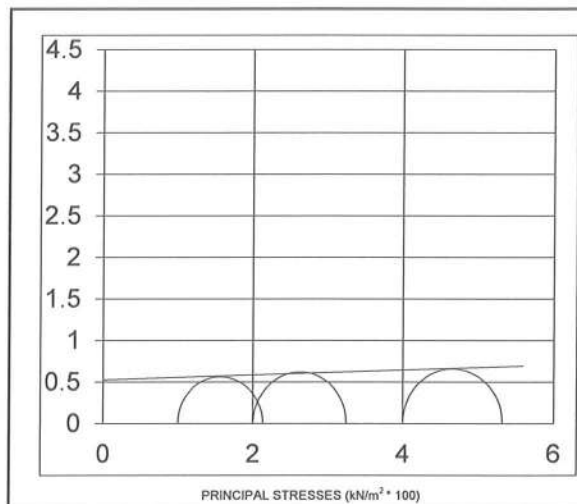
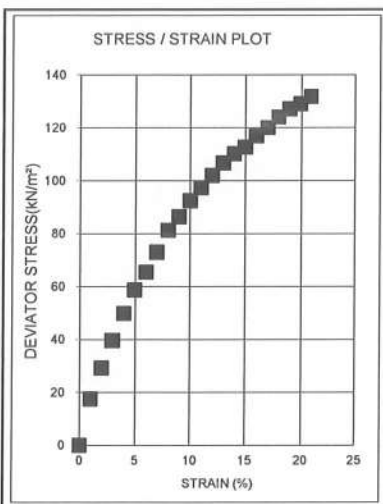
Rate of Strain : 2 2 2 %/min.

Average Shear Strength : 61 kN/m²

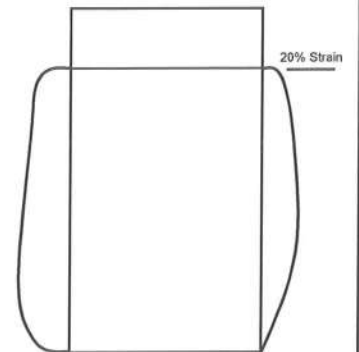
Apparent Cohesion : 53 kN/m²

Angle of Shear Resistance : 2 Degrees

101mm Diameter Multi-stage test - (one specimen)



Failure Diagram



Type of Failure : Plastic

Notes :

Tested in accordance with BS1377 : Part 7 : 1990 clauses 8 and 9.
Membrane Type : Standard Latex - 0.35mm. thick.
Preparation Method : Vertical Extrusion

Originator

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Site : Kildonan Street, Coatbridge
Client : Collective Architecture
Engineer : G3 Consulting Engineers Limited

Sheet
1 of 1

Figure No.
N051.WS101.U.TX
L

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

Exp. Point	Depth (m)	Sample Type / Ref	Non-Engineering Description
WS101	2.00	U	Grey gravelly sandy clay

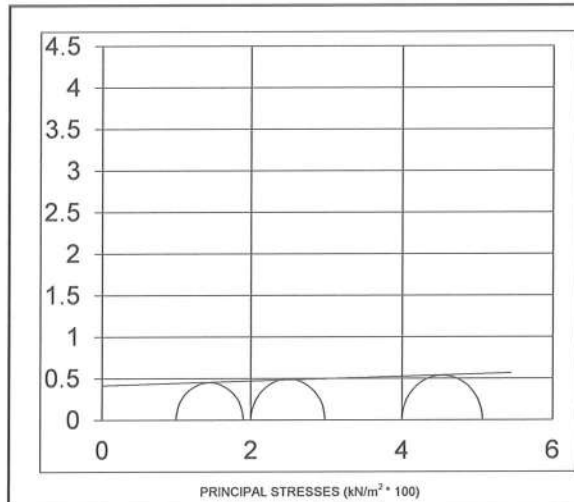
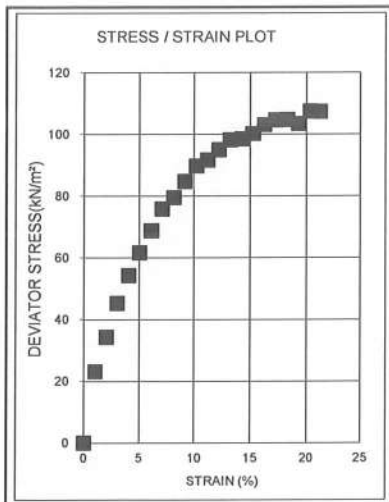
READ No	AREA cm ²	STRAIN %	STRAIN mm	PROVING RING DIAL Divs.	APPLIED LOAD kN	DEVIATOR STRESS kN/m ²
0	53.12	0.0	0		0.00 0.00 0.00	0 0 0
1	53.66	1.0	2	22	0.12	23
2	54.22	2.0	4	29	0.19	34
3	54.79	3.0	6	36	0.25	45
4	55.37	4.1	8	42	0.30	54
5	55.96	5.1	10	47	0.34	62
6	56.57	6.1	12	52	0.39	69
7	57.19	7.1	14	57	0.43	76
8	57.82	8.1	16	60	0.46	80
9	58.46	9.1	18	64	0.50	85
10	59.13	10.2	20	68	0.53	90
11	59.80	11.2	22	75	0.55	92
12	60.49	12.2	24	78	0.57	95
13	61.20	13.2	26	81	0.60	98
14	61.93	14.2	28	82	0.61	98
15	62.67	15.2	30	96	0.63	100
16	63.43	16.3	32	99	0.65	103
17	64.21	17.3	34	101	0.67	105
18	65.00	18.3	36	102	0.68	105
19	65.82	19.3	38	102	0.68	103
20	66.66	20.3	40	106	0.72	107
21	67.52	21.3	42	107	0.72	107

Specimen/Stage No : 1 2 3

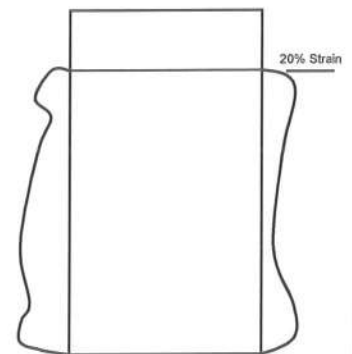
Cell Pressures : 100 200 400 kN/m²
 Weight of Specimen : 2278.1 gms.
 Diameter of Specimen : 82.24 m.m.
 Height of Specimen : 196.91 m.m.
 Weight of Wet Sample & Tin : 705.8 gms.
 Weight of Dry Sample & Tin : 616.6 gms.
 Weight of Tin : 41.6 gms.
 Moisture Content : 15.5 % dry weight
 Bulk Density : 2.18 Mg/m³
 Dry Density : 1.89 Mg/m³
 Load Factor : 8.84 N/Div.
 Pressure Zero : 8 13 25 Div.
 Shear Strength : 45 49 54 kN/m²
 Strain at Failure : 10 14 20 %
 Rate of Strain : 2 2 2 %/min.

Average Shear Strength : 49 kN/m²
 Apparent Cohesion : 42 kN/m²
 Angle of Shear Resistance : 2 Degrees

82mm Diameter Multi-stage test - (one specimen)



Failure Diagram



Type of Failure : Plastic

Notes :

Tested in accordance with BS1377 : Part 7 : 1990 clauses 8 and 9.
 Membrane Type : Standard Latex - 0.35mm. thick.
 Preparation Method : Vertical Extrusion

Originator

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Site : Kildonan Street, Coatbridge
Client : Collective Architecture
Engineer : G3 Consulting Engineers Limited

Sheet

1 of 1

Figure No.

N051.WS102.U.TX
L

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

Exp. Point	Depth (m)	Sample Type / Ref	Non-Engineering Description
WS102	3.00	U	Grey gravelly sandy clay

READ No	AREA cm ²	STRAIN %	STRAIN mm	PROVING RING DIAL Divs.	APPLIED LOAD kN	DEVIATOR STRESS kN/m ²
0	51.75	0.0	0		0.00 0.00 0.00	0 0 0
1	52.28	1.0	2	26	0.16	30
2	52.81	2.0	4	35	0.24	45
3	53.37	3.0	6	42	0.30	56
4	53.93	4.0	8	50	0.37	69
5	54.50	5.1	10	59	0.45	83
6	55.09	6.1	12	65	0.50	91
7	55.69	7.1	14	70	0.55	98
8	56.30	8.1	16	74	0.58	104
9	56.93	9.1	18	76	0.60	106
10	57.57	10.1	20	80	0.64	111
11	58.22	11.1	22	82	0.65	112
12	58.89	12.1	24	90	0.67	114
13	59.58	13.1	26	93	0.70	117
14	60.28	14.2	28	95	0.72	119
15	61.00	15.2	30	98	0.74	122
16	61.73	16.2	32	100	0.76	123
17	62.49	17.2	34	101	0.77	123
18	63.26	18.2	36	114	0.78	123
19	64.05	19.2	38	116	0.80	124
20	64.87	20.2	40	116	0.80	123
21	65.70	21.2	42	116	0.80	121

Specimen/Stage No : 1 2 3

Cell Pressures : 100 200 400 kN/m²

Weight of Specimen : 1924.6 gms.

Diameter of Specimen : 81.17 m.m.

Height of Specimen : 197.78 m.m.

Weight of Wet Sample & Tin : 400.2 gms.

Weight of Dry Sample & Tin : 315.7 gms.

Weight of Tin : 36.7 gms.

Moisture Content : 30.3 % dry weight

Bulk Density : 1.88 Mg/m³Dry Density : 1.44 Mg/m³

Load Factor : 8.84 N/Div.

Pressure Zero : 8 14 26 Div.

Shear Strength : 56 62 62 kN/m²

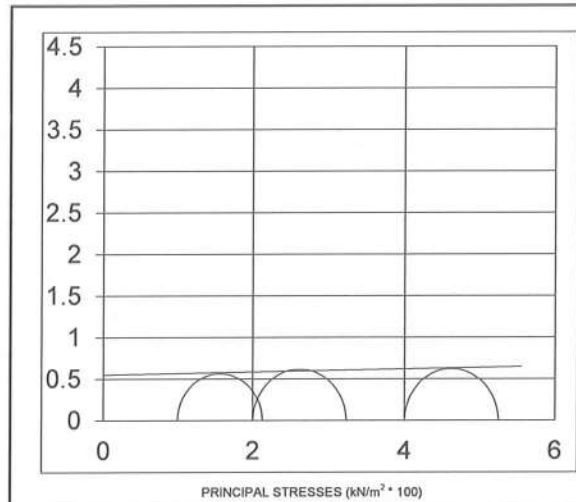
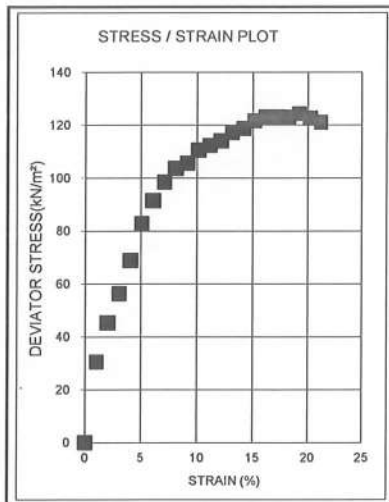
Strain at Failure : 11 16 19 %

Rate of Strain : 2 2 2 %/min.

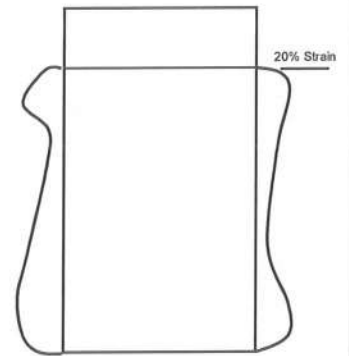
Average Shear Strength : 60 kN/m²Apparent Cohesion : 55 kN/m²

Angle of Shear Resistance : 1 Degrees

81mm Diameter Multi-stage test - (one specimen)



Failure Diagram



Type of Failure : Plastic

Notes :

Tested in accordance with BS1377 : Part 7 : 1990 clauses 8 and 9.

Membrane Type : Standard Latex - 0.35mm. thick.

Preparation Method : Vertical Extrusion

Originator

JA

Checked & Approved

JA



Site : Kildonan Street, Coatbridge
Client : Collective Architecture
Engineer : G3 Consulting Engineers Limited

Sheet
1 of 1

Figure No.
N051.WS103.U.TX
L

QUICK UNDRAINED TRIAXIAL COMPRESSION TEST

Exp. Point	Depth (m)	Sample Type / Ref	Non-Engineering Description
WS103	3.00	U	Grey gravelly sandy clay

READ No	AREA cm ²	STRAIN %	STRAIN mm	PROVING RING DIAL Divs.	APPLIED LOAD kN	DEVIATOR STRESS kN/m ²
0	54.67	0.0	0		0.00 0.00 0.00	0 0 0
1	55.23	1.0	2	21	0.11	19
2	55.80	2.0	4	28	0.17	30
3	56.39	3.1	6	33	0.21	38
4	56.99	4.1	8	38	0.26	45
5	57.60	5.1	10	43	0.30	52
6	58.23	6.1	12	46	0.33	56
7	58.86	7.1	14	48	0.34	59
8	59.52	8.1	16	50	0.36	61
9	60.18	9.2	18	51	0.37	62
10	60.87	10.2	20	59	0.39	64
11	61.56	11.2	22	61	0.41	66
12	62.28	12.2	24	61	0.41	65
13	63.01	13.2	26	73	0.42	66
14	63.76	14.3	28	75	0.43	68
15	64.52	15.3	30	75	0.43	67
16	65.31	16.3	32	75	0.43	66
17	66.11	17.3	34	77	0.45	68
18	66.94	18.3	36	75	0.43	65
19	67.78	19.3	38	77	0.45	67
20	68.65	20.4	40	77	0.45	66
21	69.54	21.4	42	78	0.46	66

Specimen/Stage No : 1 2 3

Cell Pressures : 100 200 400 kN/m²

Weight of Specimen : 2114.1 gms.

Diameter of Specimen : 83.43 m.m.

Height of Specimen : 196.39 m.m.

Weight of Wet Sample & Tin : 541.3 gms.

Weight of Dry Sample & Tin : 423.8 gms.

Weight of Tin : 36.5 gms.

Moisture Content : 30.3 % dry weight

Bulk Density : 1.97 Mg/m³

Dry Density : 1.51 Mg/m³

Load Factor : 8.84 N/Div.

Pressure Zero : 9 15 26 Div.

Shear Strength : 31 33 34 kN/m²

Strain at Failure : 9 11 17 %

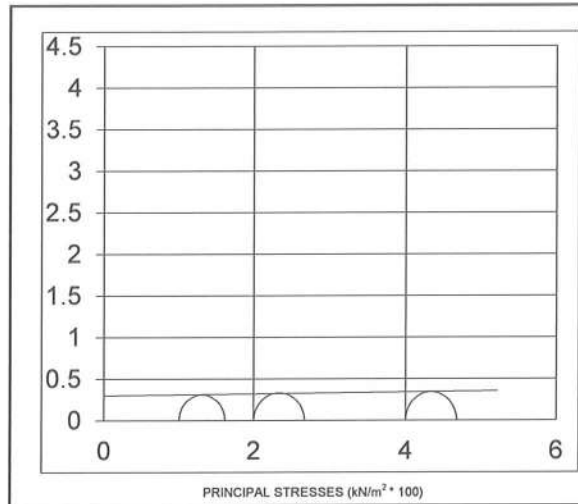
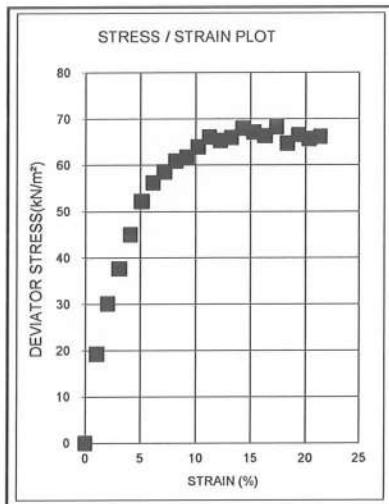
Rate of Strain : 2 2 2 %/min.

Average Shear Strength : 33 kN/m²

Apparent Cohesion : 30 kN/m²

Angle of Shear Resistance : 1 Degrees

83mm Diameter Multi-stage test - (one specimen)



Notes :
 Tested in accordance with BS1377 : Part 7 : 1990 clauses 8 and 9.
 Membrane Type : Standard Latex - 0.35mm. thick.
 Preparation Method : Vertical Extrusion

Originator
JA
 Checked & Approved
JA

Appendix 3



DETS

Certificate of Analysis

Certificate Number 21-14075

Issued: 14-Jul-21

Client Aitken Laboratories Ltd
Casterhill House
Bank Street
Slamannan
FK1 3EZ

Our Reference 21-14075

Client Reference N051

Order No Alastair

Contract Title Kildonan Street

Description 12 Soil samples, 8 Leachate samples.

Date Received 06-Jul-21

Date Started 06-Jul-21

Date Completed 14-Jul-21

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

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

Approved By



Adam Fenwick
Contracts Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871138	1871139	1871140	1871142	1871143	1871146	1871147
Sample ID	WS101	WS101	WS102	WS102	WS103	CP102	CP101
Depth	0.20	0.50	0.20	0.50	0.50	2.00	0.20
Other ID	E1	E2	E1	E2	E2	E4	E1
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units	1871138	1871139	1871140	1871142	1871143	1871146	1871147
Preparation										
Moisture Content	DETSC 1004	0.1	%	4.1	14	2.8	3.5	15	15	0.78
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	2.0	2.0	1.3	9.5	4.3	3.7	1.7
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.3	0.7	< 0.2	0.6	0.4	< 0.2	< 0.2
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1
Chromium III	DETSC 2301*	0.15	mg/kg	17	11	13	97	15	30	8.2
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	41	24	78	58	75	29	48
Lead	DETSC 2301#	0.3	mg/kg	27	22	6.6	95	23	16	5.0
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	23	14	45	20	60	52	18
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.8	< 0.5	< 0.5	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	150	42	260	250	120	39	230
Zinc	DETSC 2301#	1	mg/kg	91	64	93	74	76	65	100
Inorganics										
pH	DETSC 2008#		pH	7.2	7.7	8.7	7.5	7.9	7.3	8.7
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	1.6	3.2	0.9	3.2	4.8	2.7	0.4
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	37	66	16	220	44	39	18
Sulphide	DETSC 2024*	10	mg/kg	120	240	24	200	92	40	20
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.10	0.10	0.02	0.12	0.06	0.03	0.02
Petroleum Hydrocarbons										
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	3.2	< 1.5	< 1.5	3.6	< 1.5	3.3	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	6.7	< 1.2	< 1.2	5.8	< 1.2	6.3	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	26	< 1.5	2.0	9.0	< 1.5	10	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	500	14	120	23	24	15	< 3.4
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	540	14	120	41	24	35	< 10
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	4.9	4.7	6.3	< 0.9	6.2	< 0.9	< 0.9
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	6.3	3.6	5.9	< 0.5	5.7	< 0.5	< 0.5
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	32	3.9	8.1	< 0.6	2.7	< 0.6	< 0.6
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	870	66	420	< 1.4	84	< 1.4	< 1.4
Aromatic C5-C35	DETSC 3072*	10	mg/kg	910	79	440	< 10	99	< 10	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	1400	93	560	41	120	35	< 10
PAHs										
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.06	< 0.03	< 0.03	0.05

Summary of Chemical Analysis

Soil Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871138	1871139	1871140	1871142	1871143	1871146	1871147
Sample ID	WS101	WS101	WS102	WS102	WS103	CP102	CP101
Depth	0.20	0.50	0.20	0.50	0.50	2.00	0.20
Other ID	E1	E2	E1	E2	E2	E4	E1
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021	29/06/2021
Sampling Time	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units	1871138	1871139	1871140	1871142	1871143	1871146	1871147
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03	0.16
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.05	< 0.03	< 0.03	0.15
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	0.13
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.11	0.09	0.06	0.11	0.07	0.07	0.35
Anthracene	DETSC 3303	0.03	mg/kg	0.06	< 0.03	< 0.03	0.05	< 0.03	< 0.03	0.31
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.52	0.39	0.04	0.16	< 0.03	< 0.03	0.80
Pyrene	DETSC 3303#	0.03	mg/kg	0.47	0.35	0.07	0.13	< 0.03	< 0.03	0.78
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.14	0.13	0.03	0.03	< 0.03	< 0.03	0.28
Chrysene	DETSC 3303	0.03	mg/kg	0.18	0.11	< 0.03	0.05	< 0.03	< 0.03	0.24
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.30	0.17	0.12	0.05	< 0.03	< 0.03	0.21
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.20	0.13	0.05	0.04	< 0.03	< 0.03	0.15
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.44	0.33	0.20	0.10	< 0.03	< 0.03	0.43
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.18	0.10	0.07	0.04	< 0.03	< 0.03	0.14
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	0.04	< 0.03	< 0.03	< 0.03	0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.25	0.11	0.10	0.04	< 0.03	< 0.03	0.16
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.9	1.9	0.79	1.0	< 0.10	< 0.10	4.4
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871148	1871149
Sample ID	CP101	WS102
Depth	0.50	1.00
Other ID	E2	E3
Sample Type	SOIL	SOIL
Sampling Date	29/06/2021	29/06/2021
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Preparation					
Moisture Content	DETSC 1004	0.1	%	16	18
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	12	10
Boron, Water Soluble	DETSC 2311#	0.2	mg/kg	0.9	0.9
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	< 0.1
Chromium III	DETSC 2301*	0.15	mg/kg	41	12
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	120	83
Lead	DETSC 2301#	0.3	mg/kg	90	23
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	59	69
Selenium	DETSC 2301#	0.5	mg/kg	1.0	1.0
Vanadium	DETSC 2301#	0.8	mg/kg	140	71
Zinc	DETSC 2301#	1	mg/kg	99	70
Inorganics					
pH	DETSC 2008#		pH	7.4	6.1
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	8.2	9.7
Sulphate Aqueous Extract as SO4	DETSC 2076#	10	mg/l	100	1100
Sulphide	DETSC 2024*	10	mg/kg	110	170
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.07	0.45
Petroleum Hydrocarbons					
Aliphatic C5-C6	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C6-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aliphatic C10-C12	DETSC 3072#	1.5	mg/kg	2.4	< 1.5
Aliphatic C12-C16	DETSC 3072#	1.2	mg/kg	4.9	< 1.2
Aliphatic C16-C21	DETSC 3072#	1.5	mg/kg	7.5	< 1.5
Aliphatic C21-C35	DETSC 3072#	3.4	mg/kg	43	19
Aliphatic C5-C35	DETSC 3072*	10	mg/kg	58	20
Aromatic C5-C7	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C7-C8	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C8-C10	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01
Aromatic C10-C12	DETSC 3072#	0.9	mg/kg	3.2	6.8
Aromatic C12-C16	DETSC 3072#	0.5	mg/kg	3.0	7.2
Aromatic C16-C21	DETSC 3072#	0.6	mg/kg	3.6	8.0
Aromatic C21-C35	DETSC 3072#	1.4	mg/kg	93	120
Aromatic C5-C35	DETSC 3072*	10	mg/kg	100	140
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	mg/kg	160	160
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03

Summary of Chemical Analysis

Soil Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871148	1871149
Sample ID	CP101	WS102
Depth	0.50	1.00
Other ID	E2	E3
Sample Type	SOIL	SOIL
Sampling Date	29/06/2021	29/06/2021
Sampling Time	n/s	n/s

Test	Method	LOD	Units		
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.07	0.08
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.06	0.04
Pyrene	DETSC 3303#	0.03	mg/kg	0.05	0.04
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.23	0.20
Phenols					
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3	< 0.3

Summary of Chemical Analysis

Leachate Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871150	1871151	1871152	1871153
.Sample ID	WS101	WS102	WS103	CP101
Depth	0.50	0.50	0.50	0.20
Other ID	E2	E2	E2	E1
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	29/06/2021	29/06/2021	29/06/2021	29/06/2021
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Preparation							
NRA Leachate Preparation	DETSC 1009*			Y	Y	Y	Y
Metals							
Arsenic, Dissolved	DETSC 2306	0.16	ug/l	0.27	0.86	0.96	1.2
Boron, Dissolved	DETSC 2306*	12	ug/l	12	13	< 12	< 12
Cadmium, Dissolved	DETSC 2306	0.03	ug/l	< 0.03	< 0.03	< 0.03	< 0.03
Calcium, Dissolved	DETSC 2306	0.09	mg/l	9.4	8.7	2.3	3.2
Chromium III, Dissolved	DETSC 2306*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Chromium, Hexavalent	DETSC 2203	7	ug/l	< 7.0	< 7.0	< 7.0	< 7.0
Copper, Dissolved	DETSC 2306	0.4	ug/l	0.8	1.8	2.6	1.3
Lead, Dissolved	DETSC 2306	0.09	ug/l	< 0.09	1.3	1.6	0.50
Mercury, Dissolved	DETSC 2306	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Nickel, Dissolved	DETSC 2306	0.5	ug/l	< 0.5	< 0.5	1.1	< 0.5
Selenium, Dissolved	DETSC 2306	0.25	ug/l	< 0.25	< 0.25	< 0.25	< 0.25
Zinc, Dissolved	DETSC 2306	1.3	ug/l	1.6	3.0	4.4	2.1
Inorganics							
pH	DETSC 2008		pH	6.8	6.5	6.7	7.1
Cyanide, Total	DETSC 2130	40	ug/l	< 40	< 40	< 40	< 40
Total Hardness as CaCO3	DETSC 2303	0.1	mg/l	27.4	25.5	6.60	8.96
Sulphate as SO4	DETSC 2055	0.1	mg/l	5.0	11	3.7	3.1
Sulphide	DETSC 2208	10	ug/l	< 10	< 10	< 10	< 10
Petroleum Hydrocarbons							
Aliphatic C5-C6	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C6-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aliphatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10
Aromatic C5-C7	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C7-C8	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C8-C10	DETSC 3322	0.1	ug/l	< 0.1	< 0.1	< 0.1	< 0.1
Aromatic C10-C12	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C12-C16	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C16-C21	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C21-C35	DETSC 3072*	1	ug/l	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10
TPH Ali/Aro Total C5-C35	DETSC 3072*	10	ug/l	< 10	< 10	< 10	< 10

Summary of Chemical Analysis

Leachate Samples

Our Ref 21-14075

Client Ref N051

Contract Title Kildonan Street

Lab No	1871150	1871151	1871152	1871153
Sample ID	WS101	WS102	WS103	CP101
Depth	0.50	0.50	0.50	0.20
Other ID	E2	E2	E2	E1
Sample Type	LEACHATE	LEACHATE	LEACHATE	LEACHATE
Sampling Date	29/06/2021	29/06/2021	29/06/2021	29/06/2021
Sampling Time	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
PAHs							
Naphthalene	DETSC 3304	0.05	ug/l	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	DETSC 3304	0.01	ug/l	0.01	< 0.01	0.01	0.01
Pyrene	DETSC 3304	0.01	ug/l	0.01	< 0.01	0.01	0.01
Benzo(a)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-c,d)pyrene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Dibenzo(a,h)anthracene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(g,h,i)perylene	DETSC 3304	0.01	ug/l	< 0.01	< 0.01	< 0.01	< 0.01
PAH Total	DETSC 3304	0.2	ug/l	< 0.20	< 0.20	< 0.20	< 0.20
Phenols							
Phenol - Monohydric	DETSC 2130	100	ug/l	< 100	< 100	< 100	< 100