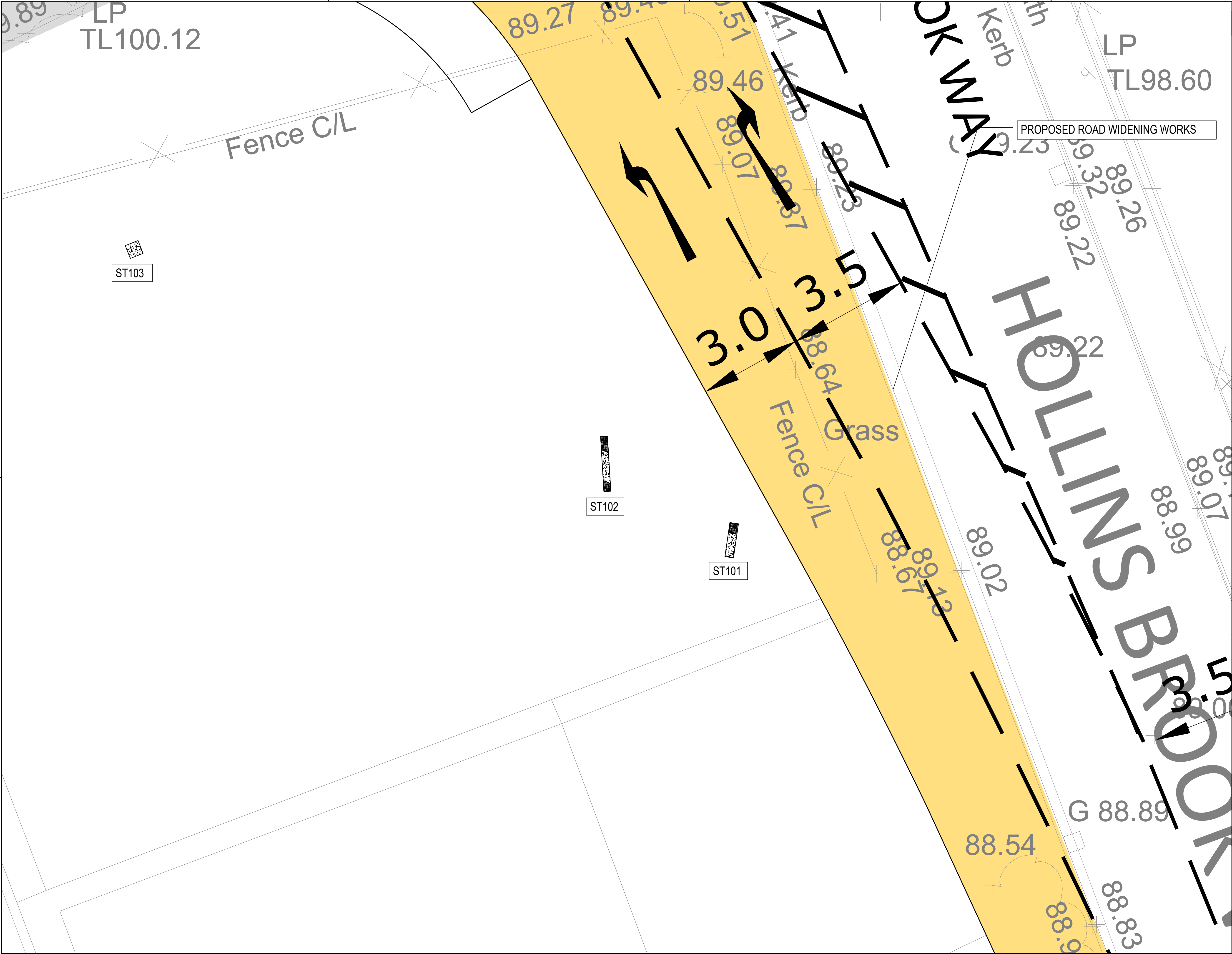




THIS DRAWING IS THE PROPERTY OF RgCp. COPYRIGHT IS RESERVED BY THEM AND THE DRAWING IS ISSUED ON THE CONDITION THAT IT IS NOT COPIED, REPRODUCED, RETAINED OR DISCLOSED TO ANY UNAUTHORISED PERSON EITHER WHOLLY OR IN PART WITHOUT THE WRITTEN CONSENT OF RgCp.

NOTES

ES103 DRAWING NOTES

ROC SLIT TRENCH CONCRETE

ROC SLIT TRENCH SOIL

DRAWING NOTES

1) SLIT TRENCH LOCATIONS SHOWN AT APPROXIMATE EXTENTS.

2) PROPOSED DEVELOPMENT ARRANGEMENT TAKEN FROM EDDISONS PLANS AND MAY BE SUBJECT TO AMENDMENT OR REVIEW.

3) ROC CONSULTING ACCEPTS NOT RESPONSIBILITY FOR ANY DAMAGES OR LOSS ARISING AS A RESULT OF THE USE OF THIS DRAWING.

4) PLEASE REFER TO ROC CONSULTING PHASE 2 SITE INVESTIGATION REPORT DATED XX/11/2021 (REF:4251-ROC-ZZ-XX-RP-ES-PH2S) FOR FINDINGS OF SITE INVESTIGATION WORKS.

01	01.11.21	FIRST ISSUE	RM	AS
REV	DATE	DETAILS	DRN	CHK

DRAWING STATUS

INFORMATION

RIBA STAGE

ROC CONSULTING

Commercial Wharf
6 Commercial Street
Manchester M15 4PZ
T 0161 214 5390
W rocconsulting.com

DRAWN RM	DATE 29/10/2021	SCALES 1:50
CHECKED AS	DATE 29/10/2021	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE -DO NOT SCALE--
APPRVD. AS	DATE 29/10/2021	EMAIL FOR DRAWINGS info@rocconsulting.com

CLIENT

JD PLC

PROJECT TITLE

HOLLINS BROOK WAY, BURY

DRAWING TITLE

**SITE INVESTIGATION
SLIT TRENCH PLAN
(PROPOSED SITE)**

DRAWING No.	REV.
4251-ROC-ZZ-XX-DR-ES-ES103	01

© RgCp Ltd.

THIS DRAWING IS THE PROPERTY OF RgCp. COPYRIGHT IS RESERVED BY THEM AND THE DRAWING IS ISSUED ON THE CONDITION THAT IT IS NOT COPIED, REPRODUCED, RETAINED OR DISCLOSED TO ANY UNAUTHORISED PERSON EITHER WHOLLY OR IN PART WITHOUT THE WRITTEN CONSENT OF RgCp

NOTES

ES102 DRAWING NOTES

 ROC WINDOW SAMPLE BOREHOLE LOCATION
OC WS101

 ROC SLIT TRENCH LOCATION
ROC TP101

DRAWING NOTES

- 1) EXPLORATORY HOLE LOCATIONS SHOWN AT APPROXIMATE EXTENTS.
- 2) PROPOSED DEVELOPMENT ARRANGEMENT TAKEN FROM EDDISON'S PLANS AND MAY BE SUBJECT TO AMENDMENT OR REVIEW.
- 3) ROC CONSULTING ACCEPTS NOT RESPONSIBILITY FOR ANY DAMAGES OR LOSS ARISING AS A RESULT OF THE USE OF THIS DRAWING

- 4) PLEASE REFER TO ROC CONSULTING PHASE 2 SITE INVESTIGATION REPORT DATED XX/11/2021 (REF:4251-ROC-ZZ-XX-RP-ES-PH2S) FOR FINDINGS OF SITE INVESTIGATION WORKS.

01	01.11.21	FIRST ISSUE	RM	AS
REV	DATE	DETAILS	DRN	CHK

DRAWING STATUS
INFORMATION

RIBA STAGE

ROC

CONSULTING

Commercial Wharf
6 Commercial Street
Manchester M15 4PZ
T 0161 214 5390
W roccoconsulting.com

DRAWN RM	DATE 29/10/2021	SCALES 1:10
CHECKED AS	DATE 29/10/2021	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
APPRVD. AS	DATE 29/10/2021	EMAIL FOR DRAWINGS info@roccoconsulting.com

CLIENT

JD PLC

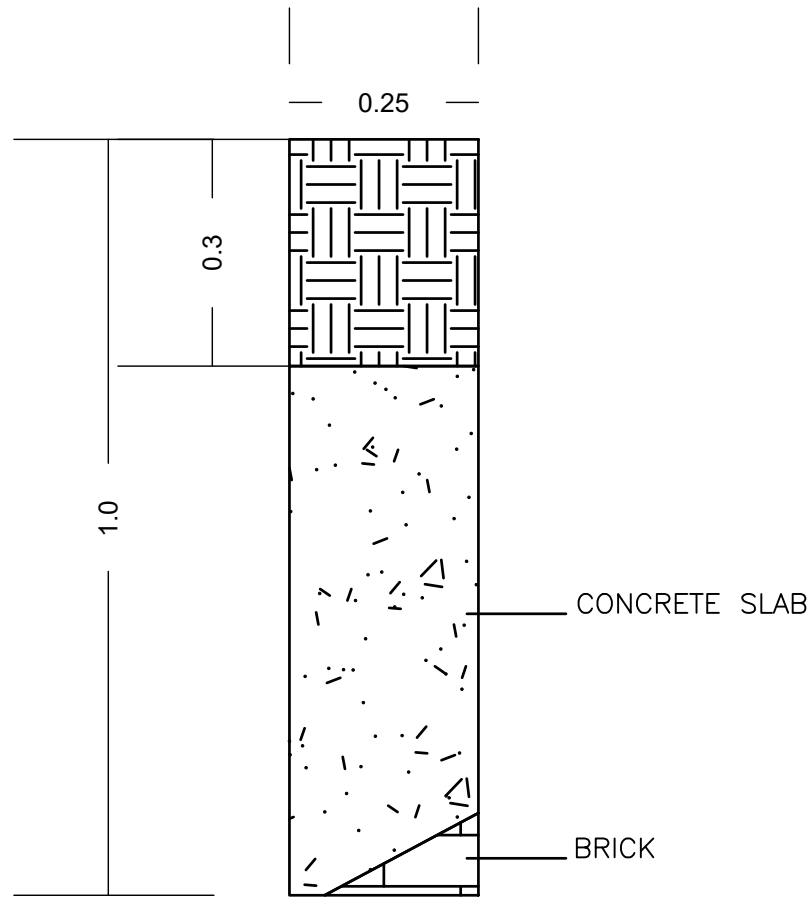
PROJECT TITLE

HOLLINS BROOK
WAY, BURY

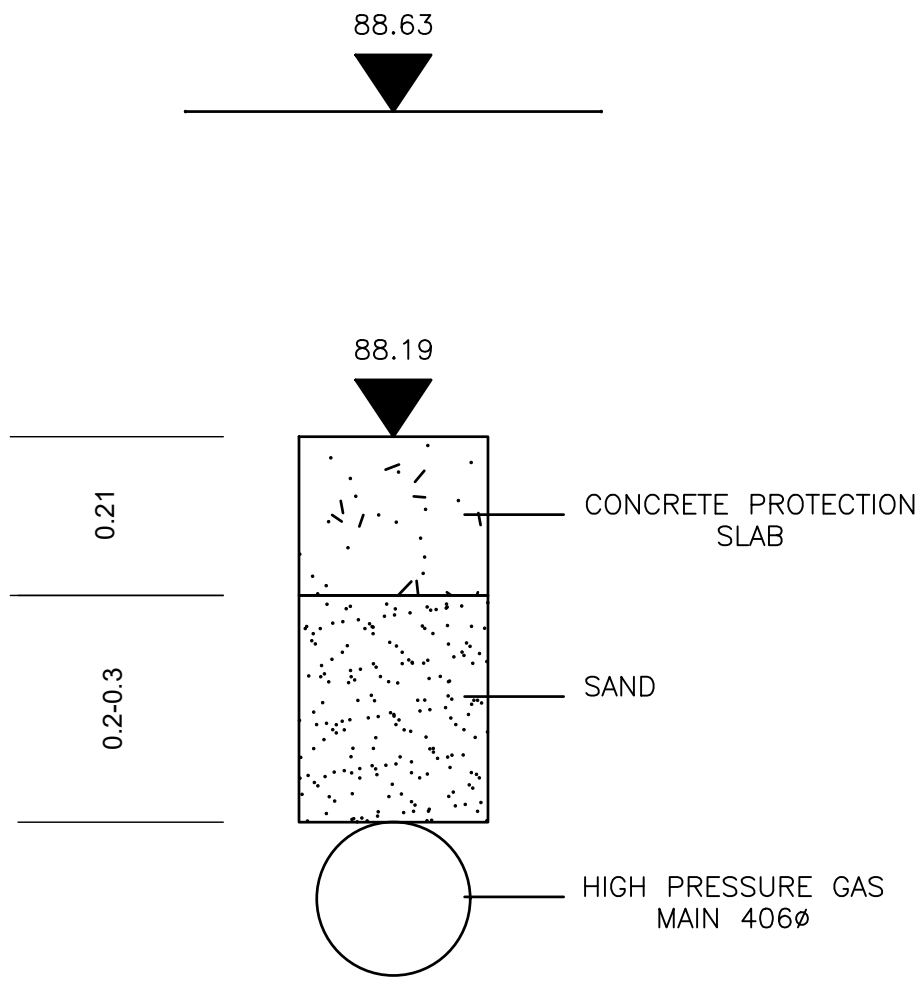
DRAWING TITLE

GAS MAIN
PLANS & SECTIONS

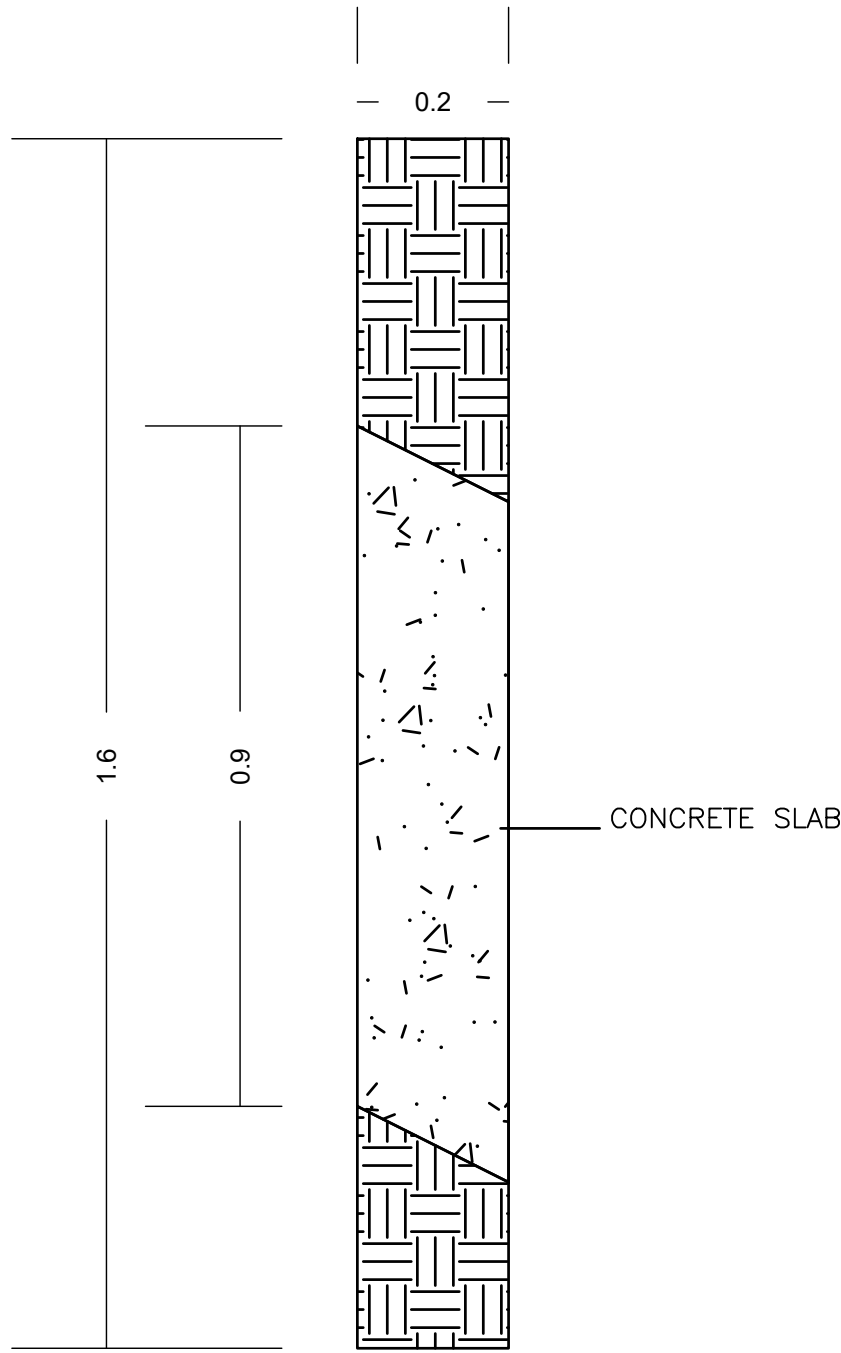
DRAWING No. 4251-ROC-ZZ-XX-DR-ES-ES104	REV. 01
---	-------------------



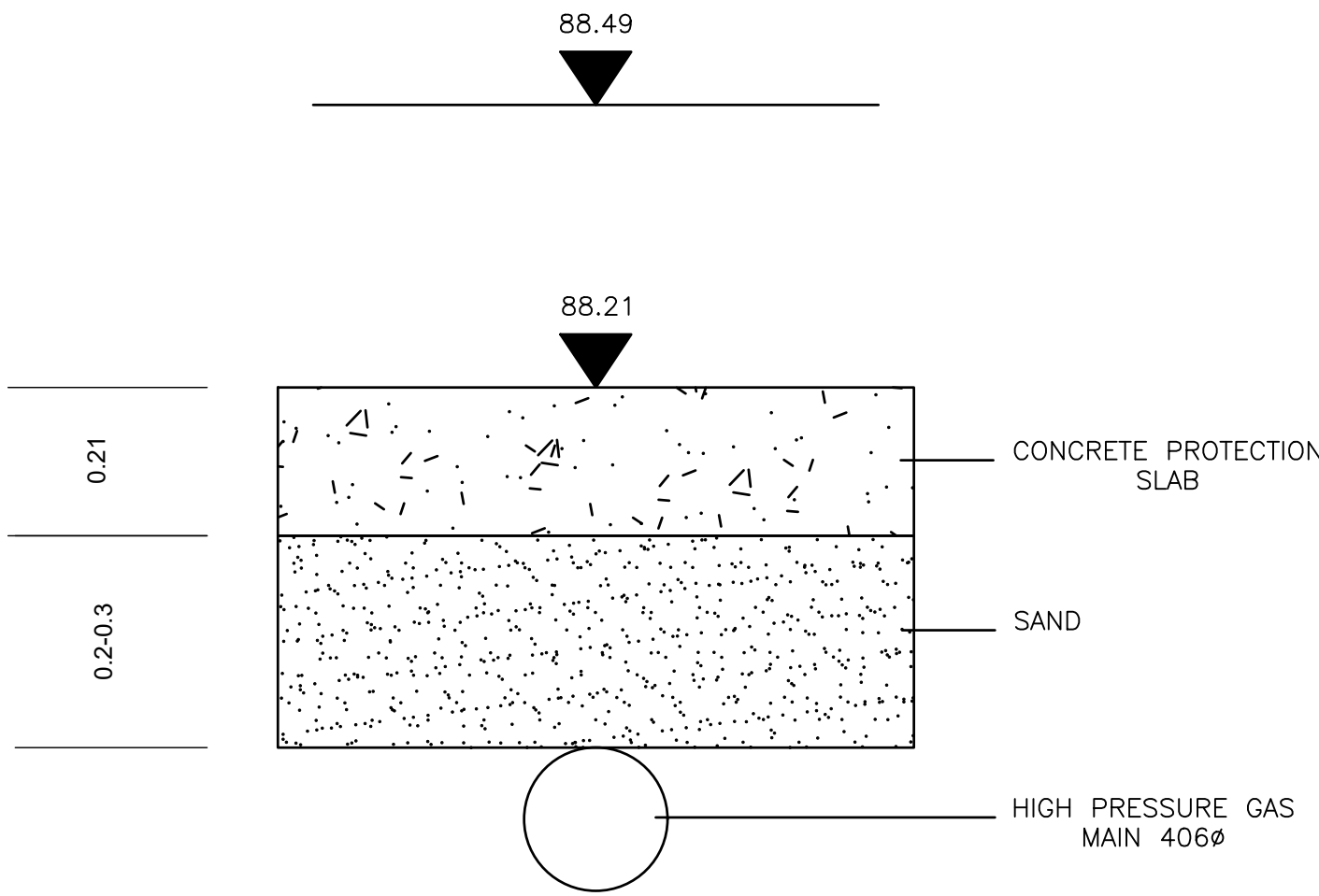
ST101 PLAN



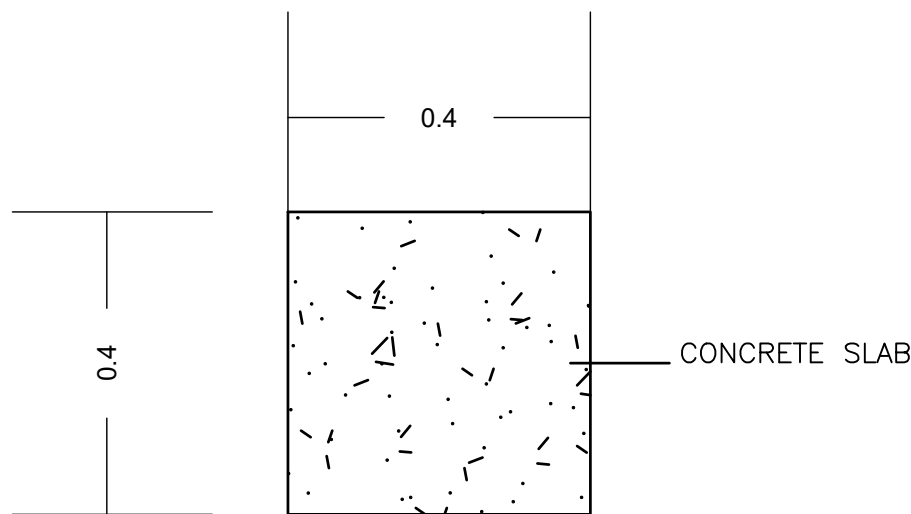
ST101 SECTION



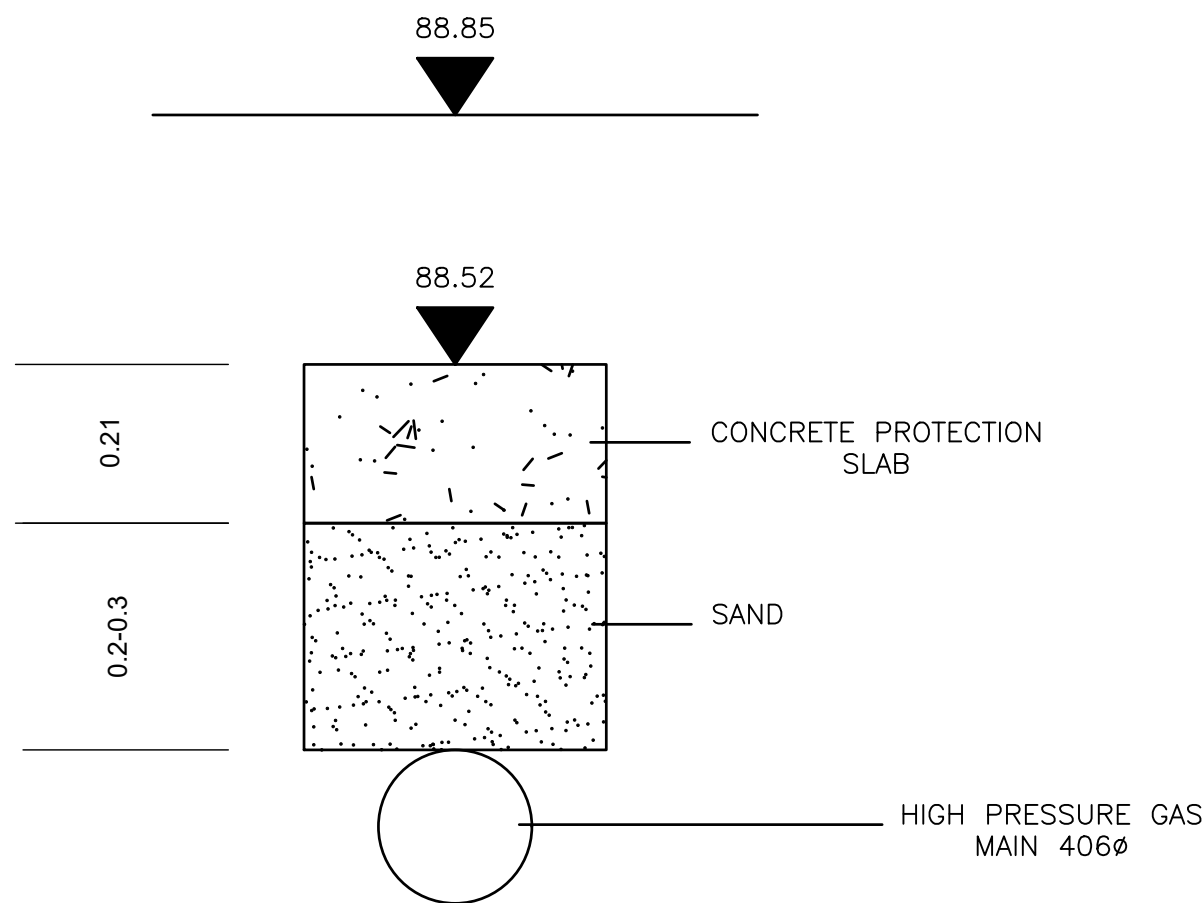
ST102 PLAN



ST102 SECTION



ST103 PLAN



ST102 SECTION



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX B – Exploratory Hole Logsheets

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS101	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05			Asphalt (MADE GROUND)	
		0.20	ES		0.18			Greyish brown sandy angular fine to medium GRAVEL of limestone (MADE GROUND)	
					0.40			Reddish brown slightly clayey sandy sub angular to angular fine to coarse GRAVEL of brick. Occassional red brick cobbles. (MADE GROUND)	
		0.60	ES		0.50			Brown gravelly SAND. Gravel is fine to coarse sub angular of sandstone, brick and limestone. Occassional wood fragments (MADE GROUND)	
		0.80	D		0.75			Firm reddish brown sandy gravelly CLAY. Gravel is sub angular to angular of brick and limestone (MADE GROUND)	
		1.00 - 1.40	U		1.20			Stiff brown mottled orangish brown slightly gravelly CLAY. Gravel is sub rounded to rounded fine of sandstone and coal (HUMMOCKY GLACIAL DEPOSITS)	1
								Medium dense light brown fine to medium SAND (HUMMOCKY GLACIAL DEPOSITS)	
								...at 1.55mbgl becoming brown	
		2.00	SPT	N=11 (2,2/3,3,2,3)				...at 1.80mbgl becoming gravelly. Gravel is sub angular to rounded fine to medium of sandstone and siltstone	2
								...at 2.40mbgl greyish brown sub angular to rounded fine to medium gravel of sandstone and siltstone	
								...at 2.70mbgl becoming slightly clayey	
		3.00	SPT	N=2 (1,1/0,0,0,2)	3.20			Very soft brown slightly sandy CLAY (HUMMOCKY GLACIAL DEPOSITS)	
								...at 3.20mbgl becoming wet	
		4.00	SPT	N=2 (0,0/0,0,1,1)	4.00			Very loose brown slightly clayey slightly gravelly SAND. Gravel is rounded of various lithologies (HUMMOCKY GLACIAL DEPOSITS)	4
								...at 4.00 to 4.80mbgl no recovery	
		5.00	SPT	N=6 (2,1/1,1,2,2)	4.80			Soft brown very sandy CLAY (HUMMOCKY GLACIAL DEPOSITS)	5

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.00	300							0.00	5.45		
1.20	300										
2.00	97										
3.00	87										
4.00	77										

Remarks 1. Inspection pit dug to 1.00mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with concrete.										
--	--	--	--	--	--	--	--	--	--	---

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS101	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					5.45			Soft brown very sandy CLAY (HUMMOCKY GLACIAL DEPOSITS)	
								End of Borehole at 5.450m	
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
1.00	300							0.00	5.45		
1.20	300										
2.00	97										
3.00	87										
4.00	77										

Remarks

1. Inspection pit dug to 1.00mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with concrete.

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS102	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 1 of 2

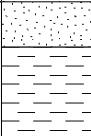
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.40	ES		0.10			Asphalt (MADE GROUND)	
					0.20			Greyish brown sandy subangular to angular fine to medium GRAVEL of limestone (MADE GROUND)	
								Brown sandy subangular to angular fine to medium GRAVEL of limestone and brick. Rare sandstone cobble (MADE GROUND)	
		0.80 0.80	D ES		0.70			Soft brown mottled orangish brown sandy CLAY (HUMMOCKY GLACIAL DEPOSITS)	1
					1.00			Very soft brown mottled orangish brown slightly gravelly CLAY. Gravel is sub rounded to rounded fine of sandstone and coal (HUMMOCKY GLACIAL DEPOSITS)	
		1.00 - 1.40	U		1.50			Soft brown very clayey SAND (HUMMOCKY GLACIAL DEPOSITS)	2
					1.70			Medium dense brown fine to medium SAND (HUMMOCKY GLACIAL DEPOSITS)	
								...at 2.20mbgl becoming dark brown	
		2.00	SPT	N=11 (2,1/3,2,3,3)				...at 2.50mbgl to 2.60mbgl fine angular band of coal gravel	3
					3.00			Very loose dark brown silty SAND (HUMMOCKY GLACIAL DEPOSITS)	
		3.00	SPT	N=3 (1,1/1,0,1,1)	3.50			Soft brown very sandy CLAY (HUMMOCKY GLACIAL DEPOSITS)	4
					4.00			Medium dense dark brown medium SAND (HUMMOCKY GLACIAL DEPOSITS)	
		4.00	SPT	N=16 (4,3/4,4,4,4)					5
		5.00	SPT	N=11 (1,2/2,3,3,3)					

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
								0.00	5.45		

Remarks
 1. Inspection pit dug to 1.00mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with concrete.

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS102	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					5.15			Medium dense dark brown medium SAND (HUMMOCKY GLACIAL DEPOSITS)	
					5.45			Firm brown CLAY (HUMMOCKY GLACIAL DEPOSITS)	
								End of Borehole at 5.450m	
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
								0.00	5.45		

Remarks

1. Inspection pit dug to 1.00mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with concrete.

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS103	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20			Dark brown sandy organic SILT. Frequent roots and rootlets (TOPSOIL)	
		0.30	ES					Brown gravelly fine SAND. Gravel is angular fine to medium of limestone and brick (MADE GROUND)	
		0.70	ES		0.80				
		1.00	D					Firm brown mottled orange slightly gravelly CLAY. Gravel is sub rounded to rounded fine to medium (HUMMOCKY GLACIAL DEPOSITS)	1
		1.00	SPT	N=13 (4,4/4,3,3,3)					
					1.70				
		2.00	SPT	N=12 (2,2/3,2,3,4)				Medium dense light brown fine to medium SAND (HUMMOCKY GLACIAL DEPOSITS)	2
		3.00	SPT	N=9 (2,2/3,1,2,3)	3.00			<u>...at 2.90mbgl fine angular band of coal gravel</u>	3
								Loose brown slightly gravelly silty SAND. Gravel is rounded fine to medium of quartz (HUMMOCKY GLACIAL DEPOSITS)	
					3.80				
		4.00	SPT	N=8 (1,2/1,1,2,2,3)				Firm brown CLAY (HUMMOCKY GLACIAL DEPOSITS)	4
		5.00	SPT	N=9 (1,1/1,1,2,5)					5

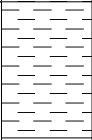
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
								0.00	5.45		

Remarks

1. Inspection pit dug to 1.20mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with arising.

Percussion Drilling Log

Project Name: Hollins Brook Way		Client: JD Plc		Date: 27/10/2021	
Location: Bury		Contractor: Earth Engineering			
Project No. : 4251		Crew Name: G.P, L.S		Drilling Equipment: Competitor 150	
Borehole Number WS103	Hole Type WS	Level	Logged By RM	Scale 1:25	Page Number Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					5.45			Firm brown CLAY (HUMMOCKY GLACIAL DEPOSITS)	
								End of Borehole at 5.450m	
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
								0.00	5.45		

Remarks

1. Inspection pit dug to 1.20mbgl prior to drilling. 2. Groundwater was not observed. 3. Upon completion borehole was backfilled with arisings and surfacing reinstated with arising.



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX C – Chemical Testing Results

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 21/11842
Issue Number: 1

Date: 08 November, 2021

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness; Alex Smiles
Project Name: Hollinsbrook Way Bury
Project Ref: 4251
Order No: 1685
Date Samples Received: 29/10/21
Date Instructions Received: 01/11/21
Date Analysis Completed: 08/11/21

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 21/11842

Client Project Name: Hollinsbrook Way Bury

Client Project Ref: 4251

Lab Sample ID	21/11842/1	21/11842/2	21/11842/3	21/11842/4	21/11842/5	21/11842/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS101	WS101	WS102	WS102	WS103	WS103				
Depth to Top	0.20	0.60	0.40	0.80	0.30	0.70				
Depth To Bottom										
Date Sampled	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4ABE	4ABE	4AB	6A	4A	4ABE				
% Stones >10mm _A	12.7	16.5	25.6	14.9	12.7	13.6		% w/w	0.1	A-T-044
pH _D ^{M#}	8.50	8.71	8.99	8.01	8.13	8.13		pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	457	191	25	<10	25	16		mg/l	10	A-T-026s
Cyanide (total) _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Fraction of organic carbon _D [#]	0.0082	0.0110	0.0051	0.0040	0.0176	0.0142		N/A	0.0003	A-T-032 FOC
Antimony _D	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic _D ^{M#}	2	<1	<1	<1	3	3		mg/kg	1	A-T-024s
Barium _D	189	87	71	39	70	86		mg/kg	1	A-T-024s
Beryllium _D	<0.5	<0.5	<0.5	<0.5	<0.5	0.5		mg/kg	0.5	A-T-024s
Boron (water soluble) _D	1.1	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium _D ^{M#}	0.5	<0.5	0.5	<0.5	<0.5	0.6		mg/kg	0.5	A-T-024s
Copper _D ^{M#}	17	9	9	13	17	20		mg/kg	1	A-T-024s
Chromium _D ^{M#}	13	13	16	14	13	17		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	13	13	16	14	13	17		mg/kg	1	Calc
Lead _D ^{M#}	100	46	19	11	31	30		mg/kg	1	A-T-024s
Mercury _D	0.82	<0.17	0.20	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Nickel _D ^{M#}	13	10	17	9	11	15		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Vanadium _D ^{M#}	15	14	13	19	16	22		mg/kg	1	A-T-024s
Zinc _D ^{M#}	92	33	48	23	61	74		mg/kg	5	A-T-024s

Envirolab Job Number: 21/11842

Client Project Name: Hollinsbrook Way Bury

Client Project Ref: 4251

Lab Sample ID	21/11842/1	21/11842/2	21/11842/3	21/11842/4	21/11842/5	21/11842/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS101	WS101	WS102	WS102	WS103	WS103				
Depth to Top	0.20	0.60	0.40	0.80	0.30	0.70				
Depth To Bottom										
Date Sampled	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4ABE	4ABE	4AB	6A	4A	4ABE				
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 21/11842

Client Project Name: Hollinsbrook Way Bury

Client Project Ref: 4251

Lab Sample ID	21/11842/1	21/11842/2	21/11842/3	21/11842/4	21/11842/5	21/11842/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS101	WS101	WS102	WS102	WS103	WS103				
Depth to Top	0.20	0.60	0.40	0.80	0.30	0.70				
Depth To Bottom										
Date Sampled	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4ABE	4ABE	4AB	6A	4A	4ABE				
PAH-16MS										
Acenaphthene _A ^{M#}	0.08	0.03	0.76	<0.01	0.69	0.10		mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	0.02	<0.01	0.02	0.02		mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.16	0.11	0.87	<0.02	2.12	0.20		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.18	0.05	0.14	<0.04	4.57	0.90		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.13	<0.04	0.04	<0.04	3.82	1.27		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.16	<0.05	0.05	<0.05	3.87	1.29		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.08	<0.05	<0.05	<0.05	1.42	0.73		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	1.43	0.46		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.20	<0.06	0.17	<0.06	3.68	0.85		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	0.37	0.17		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	1.05	0.51	3.85	<0.08	11.3	1.83		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.14	0.05	1.17	<0.01	0.59	0.06		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.08	<0.03	<0.03	<0.03	1.92	0.87		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.04	<0.03	<0.03	<0.03	0.17	0.04		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.96	0.89	10.8	0.05	7.04	0.71		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.67	0.33	2.19	<0.07	9.71	1.66		mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	3.93	1.97	20.1	<0.08	52.7	11.2		mg/kg	0.01	A-T-019s

Envirolab Job Number: 21/11842

Client Project Name: Hollinsbrook Way Bury

Client Project Ref: 4251

Lab Sample ID	21/11842/1	21/11842/2	21/11842/3	21/11842/4	21/11842/5	21/11842/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS101	WS101	WS102	WS102	WS103	WS103				
Depth to Top	0.20	0.60	0.40	0.80	0.30	0.70				
Depth To Bottom										
Date Sampled	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21	27-Oct-21				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4ABE	4ABE	4AB	6A	4A	4ABE				
TPH UKCWG										
Ali >C5-C6 _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<2	-	<2	-	-	<2		mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	<1	-	-	<1		mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	4	-	<1	-	-	<1		mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	10	-	1	-	-	<1		mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	37	-	7	-	-	4		mg/kg	1	A-T-055s
Ali >C35-C44 _A	9	-	19	-	-	<1		mg/kg	1	A-T-055s
Total Aliphatics _A	60	-	28	-	-	4		mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<4	-	<4	-	-	<4		mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	-	<1	-	-	<1		mg/kg	1	A-T-055s
Aro >C12-C16 _A	4	-	12	-	-	2		mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	16	-	53	-	-	4		mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	15	-	19	-	-	16		mg/kg	1	A-T-055s
Aro >C35-C44 _A	3	-	4	-	-	2		mg/kg	1	A-T-055s
Total Aromatics _A	40	-	90	-	-	25		mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C44) _A	100	-	118	-	-	30		mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	<0.01	-	-	<0.01		mg/kg	0.01	A-T-022s
MTBE _A [#]	<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 with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

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

Soil chemical analysis:

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

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

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

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

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

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

Client: ROCP LIMITED, Commercial Wharf 6 Commercial Street, Castlefield,
Manchester, M15 4PZ

Project: Hollinsbrook Way Bury

Clients Project No: 4251

Project No: 21/11842

Date Received: 01/11/2021 (am)

Cool Box Temperatures (°C): 12.7

NO DEVIATIONS IDENTIFIED with respect to sampling dates or containers received.

Note: 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 (for water samples $5 \pm 3^{\circ}\text{C}$), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	21/11842/1	21/11842/2	21/11842/3	21/11842/4	21/11842/5	21/11842/6
Client Sample No						
Client Sample ID/Depth	WS101 0.20m	WS101 0.60m	WS102 0.40m	WS102 0.80m	WS103 0.30m	WS103 0.70m
Date Sampled	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21	27/10/21
A-T-019s	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021
A-T-022s	04/11/2021		04/11/2021			04/11/2021
A-T-024s	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021
A-T-026s	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021
A-T-027s	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021
A-T-031s	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021
A-T-032 FOC	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021
A-T-040s	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021	04/11/2021
A-T-042sTCN	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021
A-T-044	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021	05/11/2021
A-T-045	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021	02/11/2021
A-T-050s	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021	03/11/2021
A-T-055s	04/11/2021		04/11/2021			04/11/2021
Calc	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021	08/11/2021

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



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX D – Geotechnical Testing Results

4041

Client: ROC Consulting Ltd
Client Address: Commercial Wharf, 6 Commercial Street,
Castlefield, Manchester,
M15 4PZ
Contact: Reece McGuinness
Site Address: Hollinsbrook Way, Bury

Client Reference: 4251
Job Number: 21-20214
Date Sampled: 27/10/2021
Date Received: 01/11/2021
Date Tested: 10/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

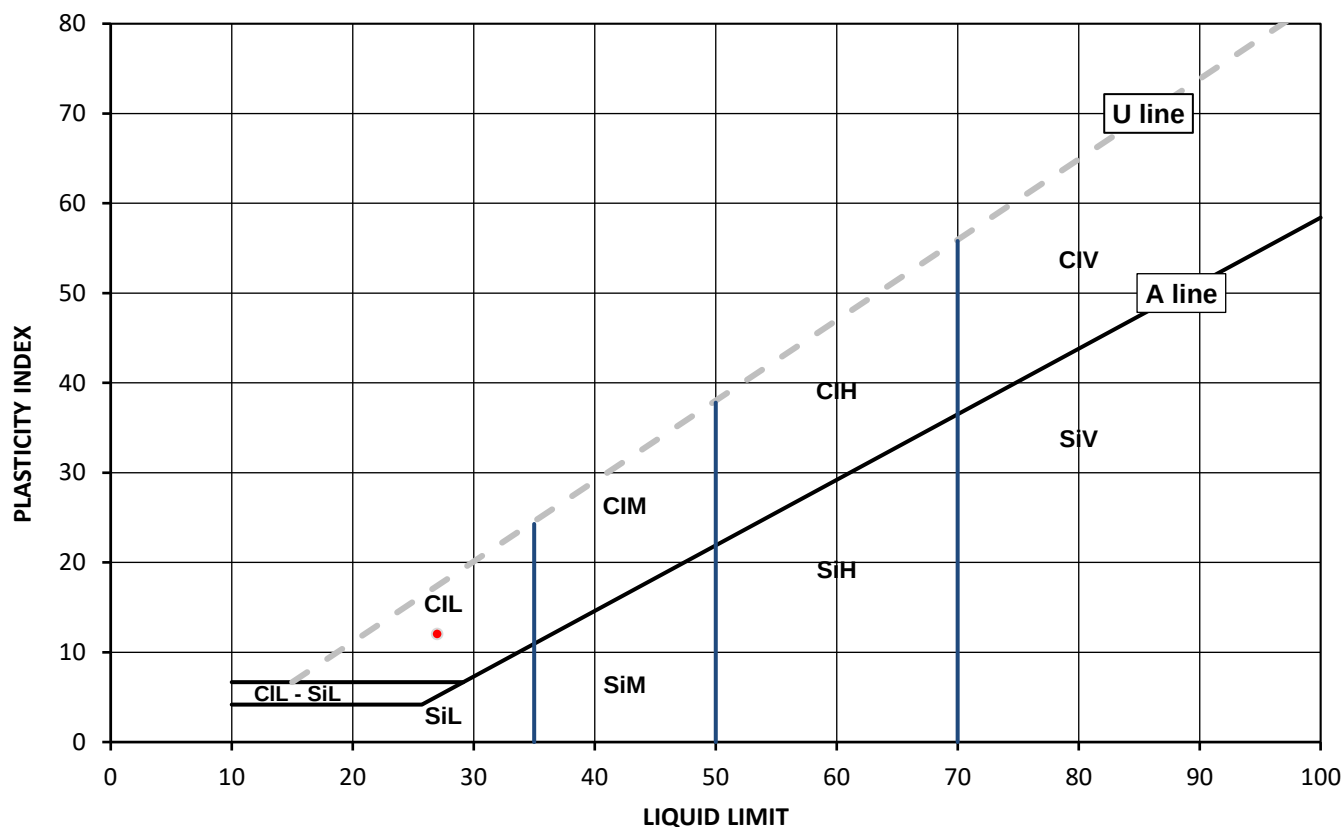
Test Results:

Laboratory Reference: 2068872
Hole No.: WS101
Sample Reference: Not Given
Sample Description: Yellowish brown slightly gravelly very sandy CLAY

Depth Top [m]: 0.80
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14	27	15	12	94



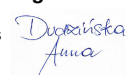
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Anna Dudzinska
Deputy Head of Geo Office Section
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Client: ROC Consulting Ltd
Client Address: Commercial Wharf, 6 Commercial Street,
Castlefield, Manchester,
M15 4PZ
Contact: Reece McGuinness
Site Address: Hollinsbrook Way, Bury

Client Reference: 4251
Job Number: 21-20214
Date Sampled: 27/10/2021
Date Received: 01/11/2021
Date Tested: 10/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

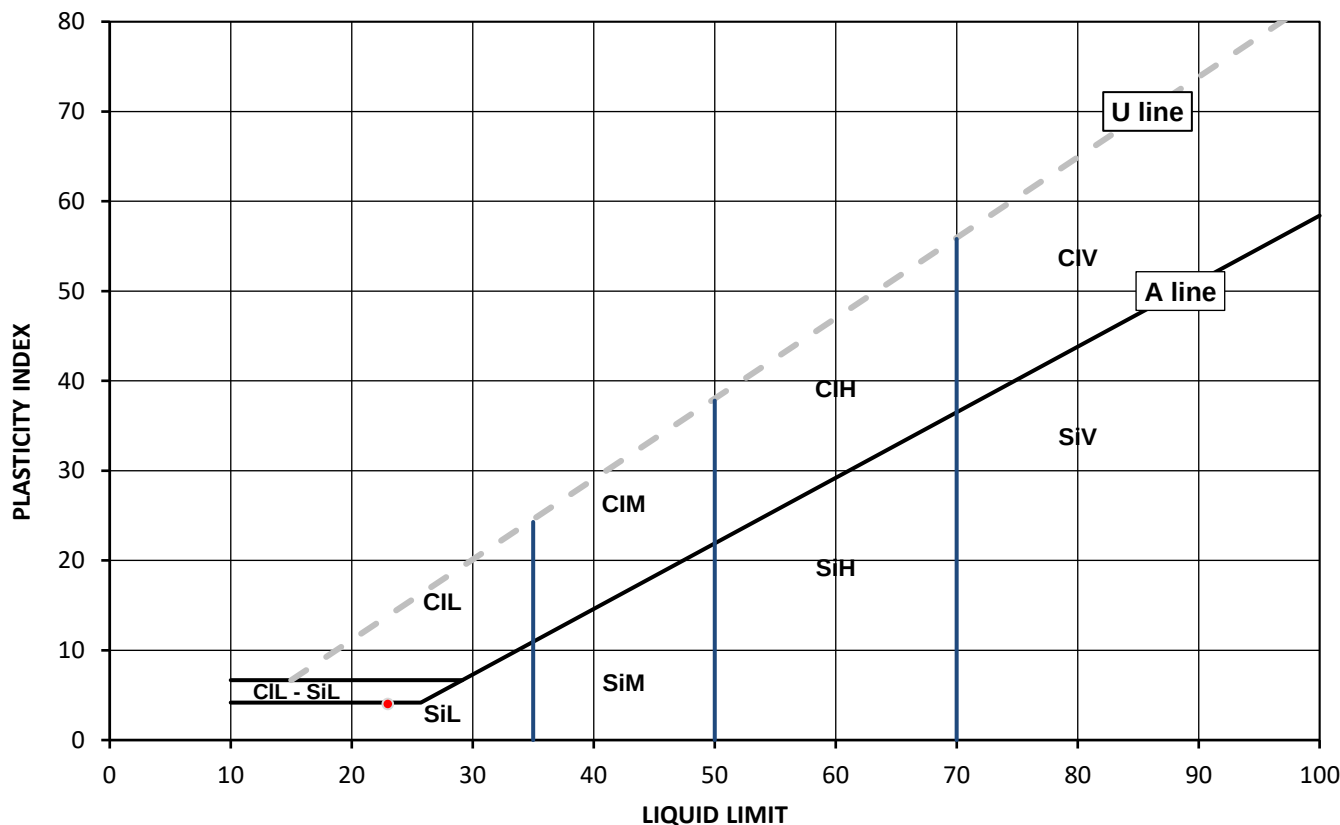
Test Results:

Laboratory Reference: 2068874
Hole No.: WS102
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly silty SAND

Depth Top [m]: 0.80
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425um BS Test Sieve
18	23	19	4	90



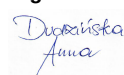
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L Low	50 to 70
	M Medium	exceeding 70
	H High	append to classification for organic material (eg CIHO)
	V Very high	
	O Organic	

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Anna Dudzinska
Deputy Head of Geo Office Section
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Client: ROC Consulting Ltd
Client Address: Commercial Wharf, 6 Commercial Street,
Castlefield, Manchester,
M15 4PZ
Contact: Reece McGuinness
Site Address: Hollinsbrook Way, Bury

Client Reference: 4251
Job Number: 21-20214
Date Sampled: 27/10/2021
Date Received: 01/11/2021
Date Tested: 10/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

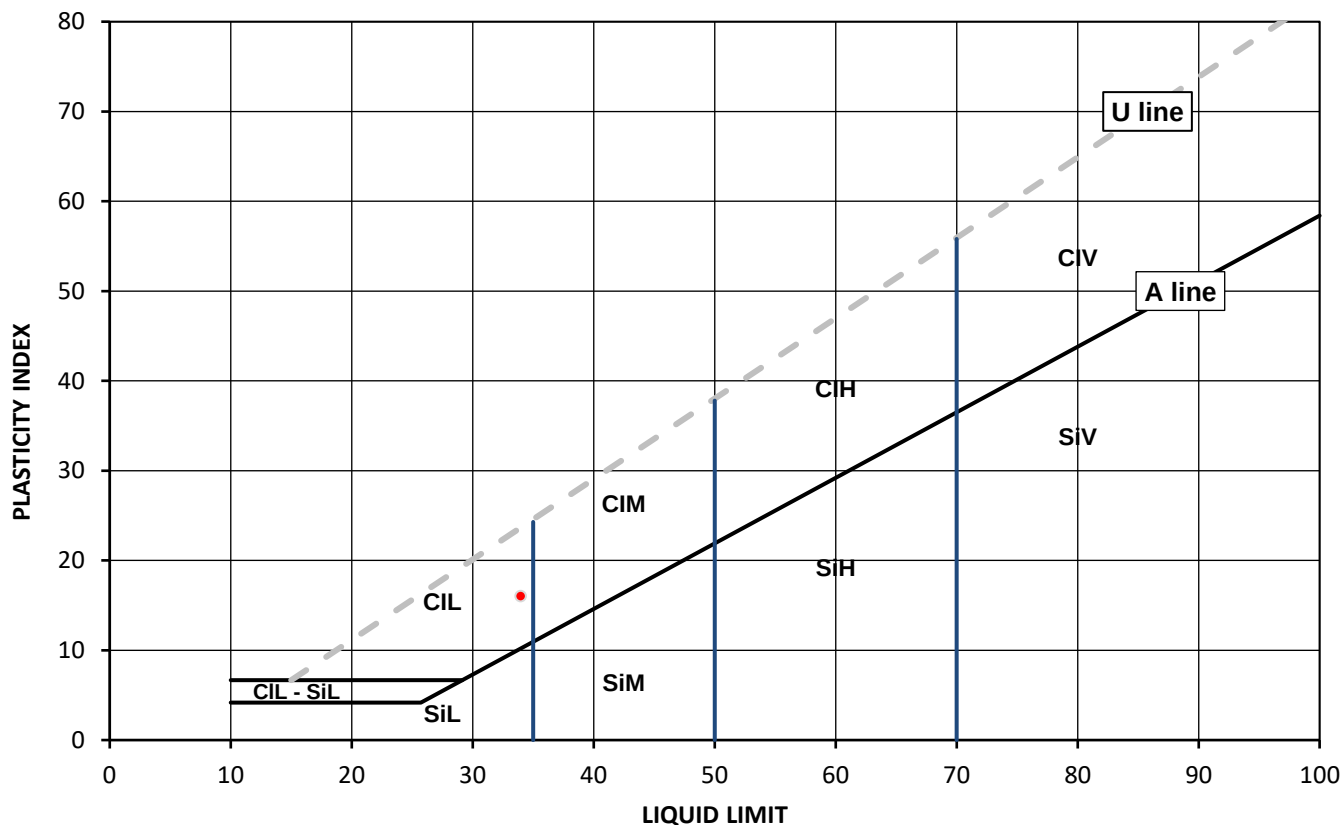
Test Results:

Laboratory Reference: 2068876
Hole No.: WS103
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 1.00
Depth Base [m]: Not Given
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Moisture Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425um BS Test Sieve
17	34	18	16	95



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Moisture Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Anna Dudzinska

Anna Dudzinska
Deputy Head of Geo Office Section
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: ROC Consulting Ltd
 Client Address: Commercial Wharf, 6 Commercial Street,
 Castlefield, Manchester,
 M15 4PZ
 Contact: Reece McGuinness
 Site Address: Hollinsbrook Way, Bury

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

Moisture Content by BS 1377-2: 1990: Clause 3.2; Water Content by BS EN
 17892-1: 2014; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test),
 Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd
 Unit 8 Harrowden Road
 Brackmills Industrial Estate
 Northampton NN4 7EB



Environmental Science

Client Reference: 4251
 Job Number: 21-20214
 Date Sampled: 27/10/2021
 Date Received: 01/11/2021
 Date Tested: 10/11/2021
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Moisture Content [W]	Water Content [W]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top	Depth Base	Type					% Passing 425um	WL	Wp	Ip	bulk	dry	PD			
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%		
2068872	WS101	Not Given	0.80	Not Given	D	Yellowish brown slightly gravelly very sandy CLAY	Atterberg 1 Point	14		94	27	15	12						
2068874	WS102	Not Given	0.80	Not Given	D	Brownish grey slightly gravelly silty SAND	Atterberg 1 Point	18		90	23	19	4						
2068876	WS103	Not Given	1.00	Not Given	D	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	17		95	34	18	16						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Dudzińska Anna

Anna Dudzińska
 Deputy Head of Geo Office Section
 for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

TEST CERTIFICATE
Unconsolidated Undrained**Triaxial Compression**Tested in Accordance with:
BS 1377-7: 1990: Clause 8i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: ROC Consulting Ltd
Client Address: Commercial Wharf, 6 Commercial Street,
Castlefield, Manchester,
M15 4PZ
Contact: Reece McGuinness
Site Address: Hollinsbrook Way, BuryClient Reference: 4251
Job Number: 21-20214
Date Sampled: 27/10/2021
Date Received: 01/11/2021
Date Tested: 18/11/2021
Sampled By: Not Given

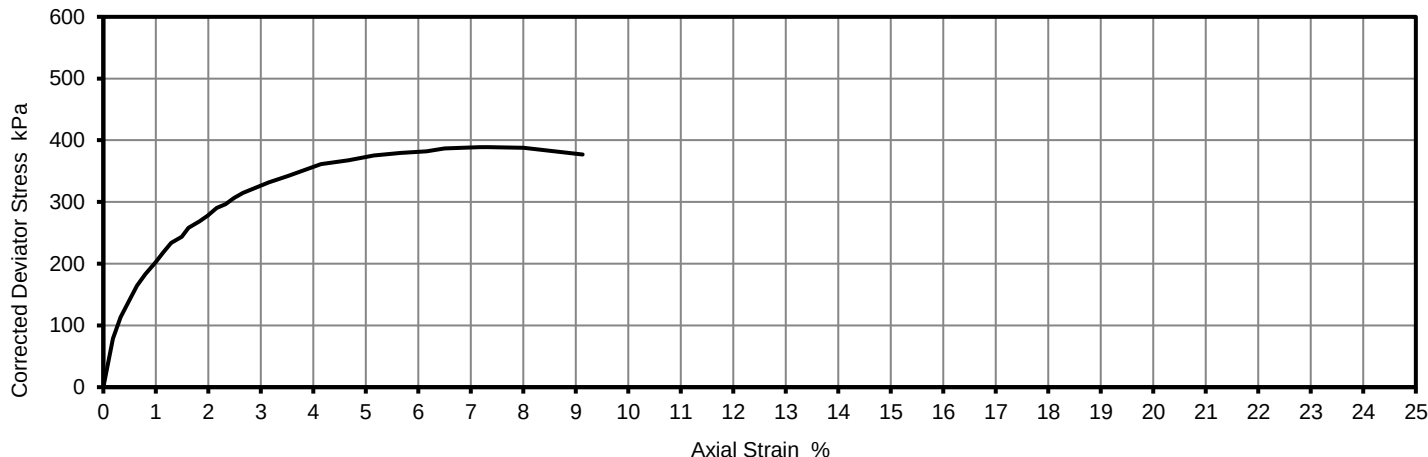
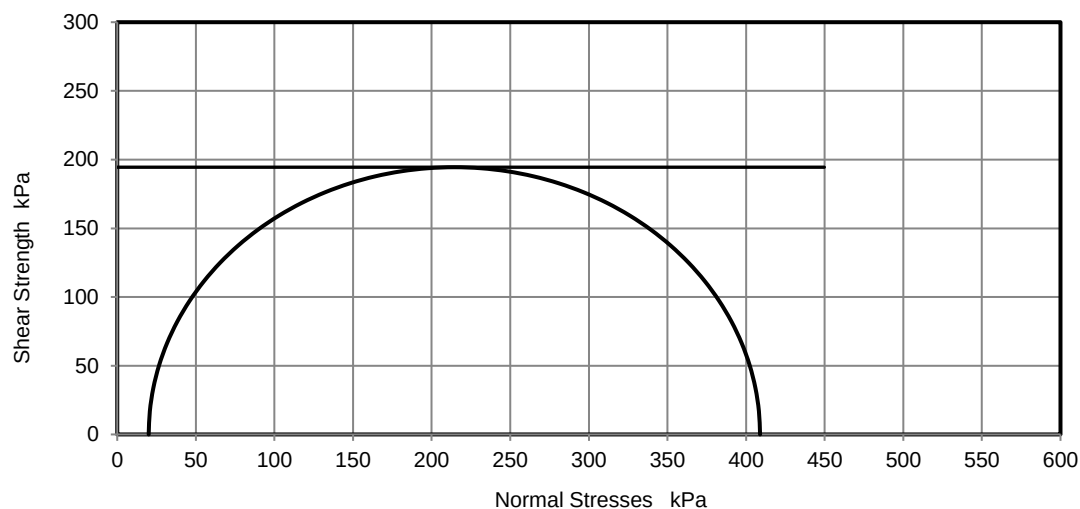
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:Laboratory Reference: 2068873
Hole No.: WS101
Sample Reference: Not Given
Sample Description: Yellowish brown and grey mottled slightly gravelly very sandy CLAYDepth Top [m]: 1.00
Depth Base [m]: 1.40
Sample Type: U

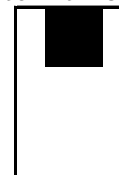
Test Number	1
Length	76.46 mm
Diameter	37.96 mm
Bulk Density	2.18 Mg/m ³
Moisture Content	13 %
Dry Density	1.92 Mg/m ³
Membrane Correction	0.99 kPa

Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, ($\sigma_1 - \sigma_3$)_f
Undrained Shear Strength, c_u
Mode of Failure
Membrane thickness

2.00	%/min
20	kPa
7.3	%
389	kPa
194	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Compound	
0.21	mm

Deviator Stress v Axial Strain**Mohr Circles**

Position within sample

Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.**Remarks:****Signed:***Anna Dudzinska*Anna Dudzinska
Deputy Head of Geo Office Section
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

TEST CERTIFICATE
Unconsolidated Undrained**Triaxial Compression**Tested in Accordance with:
BS 1377-7: 1990: Clause 8i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client: ROC Consulting Ltd
 Client Address: Commercial Wharf, 6 Commercial Street,
 Castlefield, Manchester,
 M15 4PZ
 Contact: Reece McGuinness
 Site Address: Hollinsbrook Way, Bury

Client Reference: 4251
 Job Number: 21-20214
 Date Sampled: 27/10/2021
 Date Received: 01/11/2021
 Date Tested: 23/11/2021
 Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

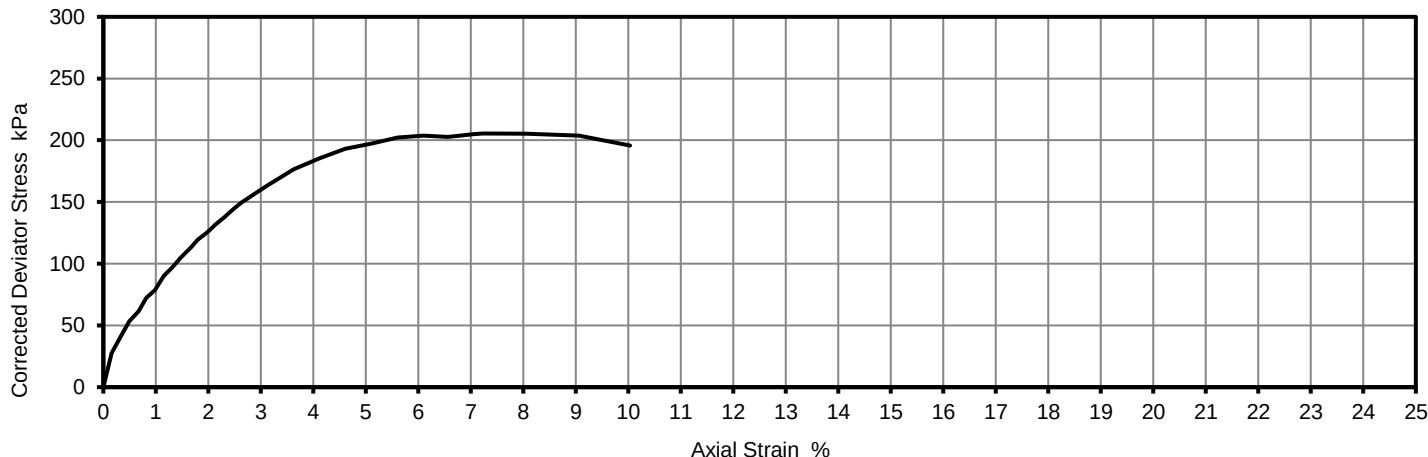
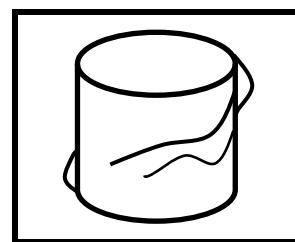
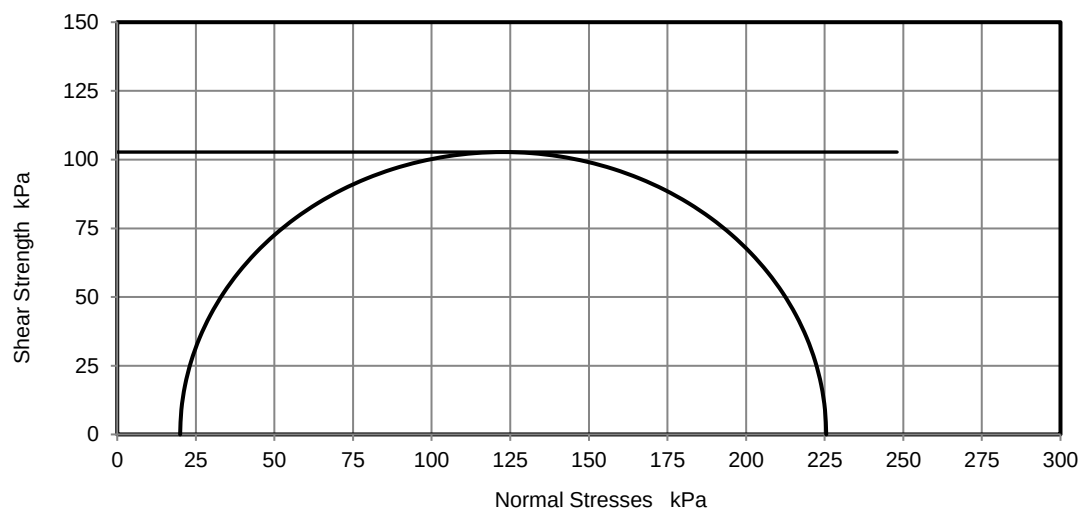
Laboratory Reference: 2068875
 Hole No.: WS102
 Sample Reference: Not Given
 Sample Description: Brownish grey very sandy CLAY

Depth Top [m]: 1.00
 Depth Base [m]: 1.40
 Sample Type: U

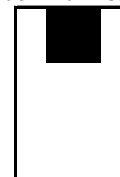
Test Number	1
Length	77.25 mm
Diameter	37.12 mm
Bulk Density	2.02 Mg/m ³
Moisture Content	21 %
Dry Density	1.68 Mg/m ³
Membrane Correction	1.05 kPa

Rate of Strain
 Cell Pressure
 Axial Strain at failure
 Deviator Stress, $(\sigma_1 - \sigma_3)_f$
 Undrained Shear Strength, c_u
 Mode of Failure
 Membrane thickness

2.00	%/min
20	kPa
7.2	%
205	kPa
103	kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Compound	
0.22	mm

Deviator Stress v Axial Strain**Mohr Circles**

Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
 This is provided for information only.

Remarks: Unable to take a photo.

Signed:*Anna Dudzinska*

Anna Dudzinska
 Deputy Head of Geo Office Section
 for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



An award-winning practice
serving the property and
construction industry for
more than 25 years



RoCP Ltd
(Trading as RoC Consulting)
Commercial Wharf
6 Commercial Street
MANCHESTER
M15 4PZ

T | 0161 214 5390
W | www.rocconsulting.com