

Our Ref: 5237-G-LR001-Rev A

Date: 7th February 2025

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Dear Mr. Symons,

Site at Bury Market, Bury – Findings of Supplementary Rotary Borehole and Trial Pit Investigation

ID GeoEnvironmental attended the site at Bury Market, Bury hereafter referred to as the 'site' between the 9th and 17th of December 2024, to conduct a supplementary phase of intrusive investigation. The findings of this supplementary phase of investigation should be read in conjunction with IDG's previous Geoenvironmental Appraisal Report Ref. 5237-G-R001 Rev A dated August 2022.

The supplementary investigation consisted of two rotary boreholes (RBH01 to RBH02) comprising open hole rotary drilling to rockhead followed by rotary coring, two additional shallow rotary boreholes for installation of two shallow gas monitoring wells (RBH01A & RBH02A) and excavation of six trial pits (TP01 to TP06). Borehole and trial pit positions are shown on the revised Exploratory Hole Location Plan (Ref. 5237-G-D005 Rev A) provided within Appendix A.

Ground Conditions

A detailed record of the ground conditions encountered in the trial pits and boreholes is presented on the exploratory hole logs in Appendix B along with the results of any in-situ testing undertaken. A brief summary of the ground conditions encountered are provided below.

Made Ground

Made Ground was encountered in all exploratory hole locations ranging between 1.0 – 2.3m in thickness. Made Ground frequently comprised coarse demolition-type materials considered to be the result of previous phases of development.

In-situ relict foundations comprising of red-brick courses over a solid reinforced concrete base were recorded within TP01 and TP02 between 0.4 – 0.55m bgl. Exploratory borehole RBH01 also recorded a suspected relict foundation between 0.6 – 1.0m bgl.

A potential infilled former basement backfilled with predominantly quarried Mudstone was encountered within TP03 and TP04 from 0.2 – 2.3m bgl. A corner section of brick wall was noted between 1.0 – 1.38m bgl in the northeast side of TP04. The base of the infill consisted of dark black-brown gravelly sandy clayey Made Ground with fragments of red-brick and coal at 2.3m and 1.9m bgl within TP03 and TP04 respectively. Sandstone blocks were also recorded at the base of the infill

which may represent a former basement floor, however, significant instability and collapse of the pit side walls within the loose granular backfill prevented further excavation to confirm whether these formed a continuous floor, and the nature of any underlying soils beneath the infill.

Red-brick backfill suspected to be associated with former buildings was recovered within TP05 and TP06 to an approximate depth of 2.0m bgl. However, significant instability of the pit side walls within the backfill prevented further excavation to prove the depth of natural strata of both trial pits.

Visual and olfactory evidence of hydrocarbon contamination was recorded within TP01, where brown-black discoloration of the Granular Glaciofluvial deposits between 2.5 – 3.0m bgl was accompanied by a strong hydrocarbon odour. This may be associated with the former garage in this locality. Samples of this material were submitted for laboratory chemical analysis to assess the significance of the hydrocarbon impact, along with general testing suite for samples recovered from the other exploratory locations.

Natural Ground

Natural Ground was proven in TP01, TP02, RBH01, RBH01A, RBH02 and RBH02A and typically comprised interbedded granular and cohesive Glaciofluvial deposits of red-brown slightly clayey silty cobbly SAND, cobbly sandy GRAVEL and silty sandy gravelly CLAY between 1.0 – 12.3m bgl. Rare laminations of dark brown CLAY were noted within RBH01.

Cohesive Glaciofluvial deposits consisting of dark grey-brown slightly sandy silty slightly gravelly CLAY was encountered from 12.3m and 12.0m bgl within RBH01 and RBH02 respectively.

SPT's obtained between depths of 1.2m to 16.5m during rotary drilling recorded N-values presented in Table 1.

Table 1. SPT 'N-Value' Results

Depth (m)	RBH01		RBH02	
	Granular	Cohesive	Granular	Cohesive
1.2	-	-	6	-
1.3	21	-	-	-
2.0	19	-	22	-
3.0	20	-	23	-
4.0	30	-	26	-
5.0	23	-	13	-
6.0	18	-	27	-
7.0	44	-	23	-
8.0	-	50/REF	29	-
9.0	39	-	29	-
10.0	11	-	50/REF	-
11.0	39	-	22	-
12.0	-	30	-	35
13.0	-	-	-	50/REF
14.0	-	37	-	50/REF
15.0	-	50/REF	-	50/REF
16.0	-	-	-	50/REF
16.5	-	50/REF	-	-

It should be noted that sandstone and mudstone gravel and/or cobbles were noted within the vast majority of SPT samples, and are considered to be the probable cause of high blow counts and true densities are more likely to fall within the medium dense range.

It is noted that reliable hand shear vane readings were difficult to obtain due to the friable and often gravelly nature of the clay. One ex-situ shear vane obtained within TP02 at 1.2m bgl was 65kpa which is indicative of a firm clay.

Geotechnical samples obtained from the superficial deposits, residual soils and bedrock were submitted to a geotechnical laboratory for an appropriate suite of geotechnical testing.

Rotary Coring

Rotary coring began between 16.0m and 16.5m bgl to a maximum depth of 24.0m (RBH01) below ground level. The rock strata comprised beds of highly fractured silty MUDSTONE and fine-grained SANDSTONE of the Lower Pennie Coal Measures, where two thin low-quality coal bands were recorded within RBH01 between 22.19 – 22.29m and 22.83 – 23.0m bgl. Fractures were determined to be rough horizontal, inclined, vertical and open. Photographs of the rock cores are presented within Appendix C.

Core recovery within RBH01 was generally poor between 16.5 – 21.0m bgl, with no recovery between 16.5 – 18.0m and 19.5 – 21.0m bgl. The poor recovery is considered likely to be the result of highly weathered bedrock in conjunction with partial washout by water used during coring. However, core recovery within RBH02 was generally good with between 49.33-100% core recovered.

Solid core recovered and consequently the RQD designations (based upon volumetric joint count) are influenced by the highly fractured nature of the bedrock. As a consequence, RQD's ranged between 0 and 45.67%, average circa 22 indicating poor quality. Samples of rock core have been submitted to a geotechnical laboratory for point load tests and to determine UCS.

Groundwater

Groundwater was encountered within two boreholes (RBH01 and RBH02) between 4.0 – 5.0m bgl and quickly rose to 4.25m bgl within RBH01. The solid rock cores were generally dry indicating groundwater is perched within the Granular Glaciofluvial material between surface and circa 12.0m bgl. Shallow groundwater was not encountered within the depth of excavation in the trial pits.

Groundwater/Gas Monitoring Wells

Groundwater/gas monitoring wells were installed within RBH01A and RBH02A to a depth of 5.0m bgl, with a response zone between 2.0 – 5.0m bgl.

Chemical Analysis

An IDG Engineer submitted a test schedule to a UKAS accredited Laboratory and an assessment of potential contaminants associated with the former uses of the site has been undertaken.

The soil contamination test results are presented in summary Tables 1 to 4 presented in Appendix D, together with the laboratory test results. The results have been classified by comparison with the relevant LQM/CIEH SAUL (2015) and C4SL (lead only) UK guidance assessment criteria for a *commercial end use*. A 1% SOM content has been utilised for screening purposes.

Made Ground

Samples of Made Ground were subjected to chemical testing including pH, metals, speciated PAH, TOC and asbestos screens. Laboratory chemical analysis of the samples did not identify any concentrations in excess of the relevant assessment criteria. No asbestos fibers or possible ACM's were identified.

Relict Topsoil and Natural Ground

Samples of relict topsoil and natural glaciofluvial deposits were subjected to chemical testing including pH, metals, speciated PAH, TOC and asbestos screens. The samples did not contain concentrations in excess of the relevant assessment criteria. Asbestos fibers were not identified.

Hydrocarbon contamination

Two samples obtained from TP01 at 1.9m and 2.9m to target the horizon with observed visual and olfactory evidence of hydrocarbon contamination were subjected to TPH-CWG and BTEX analysis. The presence of low concentrations of hydrocarbon impact in the C10 to C35 range was confirmed in both samples, however the recorded concentrations remained significantly below the relevant TPH and BTEX assessment criteria for a commercial use, and do not require further consideration.

Phytotoxic Generic Risk Assessment

An assessment of the Reworked Relic Topsoil, Made Ground and Natural Ground was carried out to determine the potential for phytotoxic effects. The test results were classified by comparison with the relevant UK guidance threshold value as shown in Table 3. The results recorded one exceedance of the relevant guidance threshold value, relating to sample TP01 at 0.8m with an elevated copper concentration of 225mg/kg, however this is not considered significant given the proposed commercial redevelopment.

Geotechnical Testing

Thirty-one samples of natural strata were delivered to a suitably accredited laboratory with a schedule of geotechnical testing drawn up by IDG. Nine samples of natural strata were also taken to a UKAS accredited laboratory for pH and soluble sulphate testing. The geotechnical laboratory test results are presented in Appendix E and summarised below.

Soil classification testing

The Atterberg limit test is used to determine arbitrarily defined boundaries between the liquid and plastic states, and between the plastic and brittle states of fine-grained soils, expressed as water percentage. Testing for moisture content, liquid limit, plastic limit and plasticity index was carried out on selected soil samples in accordance with guidance contained in BS1377-2:1990.

Plasticity index results have been modified in accordance with guidance contained in Chapter 4.2 of the NHBC Standards. The results are summarized in table 2, together with an assessment of Volume change Potential (Shrinkability).

Table 2. Plasticity Index Results

Soil type	Range of Modified Plasticity Indices (Average)	Volume Change Potential
Cohesive Glaciofluvial	11.8 – 23 (17.7)	Low

For the purposes of foundation design, it is recommended that the Cohesive Glaciofluvial clay soils be regarded as being low volume change potential.

IDG's previous Geoenvironmental Appraisal report (Ref. 5237-G-R001 Rev A) had also classified these Cohesive Glaciofluvial soils as being of low volume change potential.

Particle Size Distribution

Particle size distribution tests were carried out on two samples of glaciofluvial deposits in order to evaluate the range of grain sizes.

Tabel 3. Particle Size Distribution Results

Sample Location		TP01	TP02
Sample Depth		1.0 – 1.25m	2.0 – 2.2m
Material Type		Natural Glaciofluvial	Natural Glaciofluvial
Soil Fraction	Particle Size (mm)		
Cobbles	<200	0%	14%
Gravel	2.0 - 200	9%	47%
Sand	0.063 - 2.0	57%	34%
Silt	0.002 – 0.063	17%	5%
Clay	<0.002	17%	

In accordance with BS5930:1999+A2:2010, these materials would be described as 'Slightly gravelly sandy CLAY' and 'Very sandy silty GRAVEL with cobbles' respectively.

Soluble sulphate and pH

An assessment to determine the appropriate specification for buried concrete, testing has been carried out in accordance with guidance contained in BRE Special Digest 1:2005 Concrete in Aggressive Ground.

The site has been classified as brownfield. The groundwater regime has been classified as mobile. The highest water-soluble sulphate concentration and the lowest pH value for each soil type analysed are shown in table 4.

Table 4. Summary of Sulphate and pH Results

Soil type	No. of samples	Lowest pH value (Average)	Highest Soluble Sulphate Concentration (g/l)
Granular Glaciofluvial	6	6.35 (7.93)	0.06
Cohesive Glaciofluvial	3	6.05 (7.71)	0.05

The average values of pH were all greater than 5.5, therefore concentrations of chloride and nitrate are considered insignificant.

Therefore, in accordance with Tables C1 and C2 of BRE Special Digest 1:2005, sub-surface concrete should be Design Sulphate Class DS-1, with the site allocated an ACEC Classification of AC-2z. Should any concrete come into contact with coal, the concrete class should be upgraded to AC-3z.

This classification is in-line with IDG's previous site assessment presented in report reference 5237-G-R001 Rev A.

Shear Strength Tests

Testing to determine undrained shear strength in triaxial compression was carried out on two samples of natural cohesive strata. The results are summarized in table 5.

Table 5. Undrained Shear Strength Testing Results

Borehole Location Number	Depth (m)	Material Description	Apparent Undrained Cohesion (kPa)	Strength Assessment (from BS EN ISO 14688-2:2004)
RBH01	13.0 – 13.3	Slightly sandy slightly gravelly CLAY	234	Very high
RBH02	14.5 – 14.97	Slightly sandy slightly gravelly CLAY	231	Very high

*Description by geotechnical testing laboratory from undisturbed sample of strata not logged during drilling

IDG's previous site assessment presented in report reference 5237-G-R001 Rev A, classified the Cohesive Glaciofluvial deposits as medium to high shear strength with sample depths between 6.5 – 12.5m bgl. The higher strength recorded in RBH01 and RBH02 is likely to be representative of a lesser degree of weathering at depth.

Point Load Tests

Twenty-five rock core samples were subjected to Point Load Testing to ascertain the strength of the rock. The full set of results are presented within Appendix E and a summary of the data is presented in table 6.

Table 6. Summary of Point Load Test Results

Borehole Location Number	Range of Sample Depths (m)	Range of Corrected I_{s50} (MPa)
RBH01	22.86 – 24.0	0.3 – 3.57
RBH02	16.53 – 23.40	0.03 – 1.49

* $I_{s(50)}$ is the corrected I_s value to a sample reference dimension of 50mm.

Unconsolidated Compressive Strength

Nine rock core samples were scheduled for Unconsolidated Compressive Strength Tests, however, due to fragmentation of the rock core (during recovery and transportation) only three samples were deemed suitable for UCS testing by the laboratory. The full set of results is presented within Appendix E and a summary of the data is presented in table 7. It should be noted that UCS testing requires intact core and therefore testing was only possible on intact, therefore possibly stronger core.

Table 7. Summary of Unconsolidated Compressive Strength Test Results

Borehole Location Number	Range of Sample Depths (m)	Range of Compressive Strength (N/mm ²)
RBH01	23.0	4.56
RBH02	17.21 – 23.0	18.8 – 18.5

Summary

Ground Conditions

Made Ground was encountered at all exploratory hole locations during this supplementary phase of site investigation. Made Ground ranged between 1.0 – 2.3m thickness and comprised coarse demolition-type materials considered to be the result of previous phases of development. In addition, in-situ relict foundations and structures relating to previous phases of development were encountered which may represent an obstruction to piling and new infrastructure. It is recommended that turnover to remove relict foundations and structures is completed in the footprint of proposed new buildings and infrastructure.

Natural deposits comprised interbedded cohesive and granular Glaciofluvial deposits of red-brown slightly clayey silty cobbly SAND, silty sandy CLAY and cobbly sandy Gravel to a maximum depth of 12.3m bgl (within RBH01). This is underlain by stiff Cohesive deposits consisting of dark grey-brown slightly sandy silty slightly gravelly CLAY to a maximum depth 16.5m bgl (within RBH01).

Rotary coring began between 16.0m and 16.5m bgl to a maximum depth of 24.0m (RBH01) below ground level. The rock strata comprised of highly fractured silty MUDSTONE and fine-grained SANDSTONE of the Lower Pennie Coal Measures, with two thin highly weathered low-quality coal horizons recorded at depth (below 22m) in RBH01.

Groundwater was recorded between 4.0 – 5.0m bgl during this supplementary site investigation, which is broadly commensurate with groundwater levels encountered in IDG's previous investigation.

Contamination

Chemical testing has confirmed the concentrations of all determinants to be below the relevant assessment criteria for the proposed commercial redevelopment. This concurs with the findings of IDG's previous Geoenvironmental Appraisal Report Ref. 5237-G-R001 Rev A, and in the absence of any significant contamination, no remediation is required from a contamination perspective.

IDG would note that should preparatory works identify any more significant hydrocarbon impact that the client should contact IDG to enable further sampling and assessment to be undertaken.

Foundations

The in-situ and laboratory geotechnical testing provided in this document should be forwarded to the appointed Structural Engineer and Piling Contractor. IDG do not consider that the findings of this supplementary investigation should require any significant alteration to the proposed foundation solutions.

Groundwater and Excavations

Based on the results of this investigation and the previous Geoenvironmental Report Ref. 5237-G-R001 Rev A, groundwater flows should be anticipated in excavations.

Trial pits excavated during this supplementary site investigation were unstable within the loose granular Made Ground, therefore shoring of foundation and service trench excavations to prevent collapse may be required.

Further Works

IDG note that a further post-demolition phase of investigation is yet to be completed. It is recommended that IDG are notified at the earliest opportunity upon completion of the demolition works to ensure the additional investigation and testing can be carried out in a timely and efficient manner to assist with sign-off of associated planning conditions.

In the meantime, this letter report can be submitted to the Local Authority as a standalone document to support the previous Geoenvironmental Appraisal Report.

We trust you find the above information satisfactory. Should you have any queries or require further clarification, please do not hesitate to contact us.

Yours sincerely,

Mrs Ellen Smits

BSc (Hons), MSc, AIMMM, MNEIMME, FGS

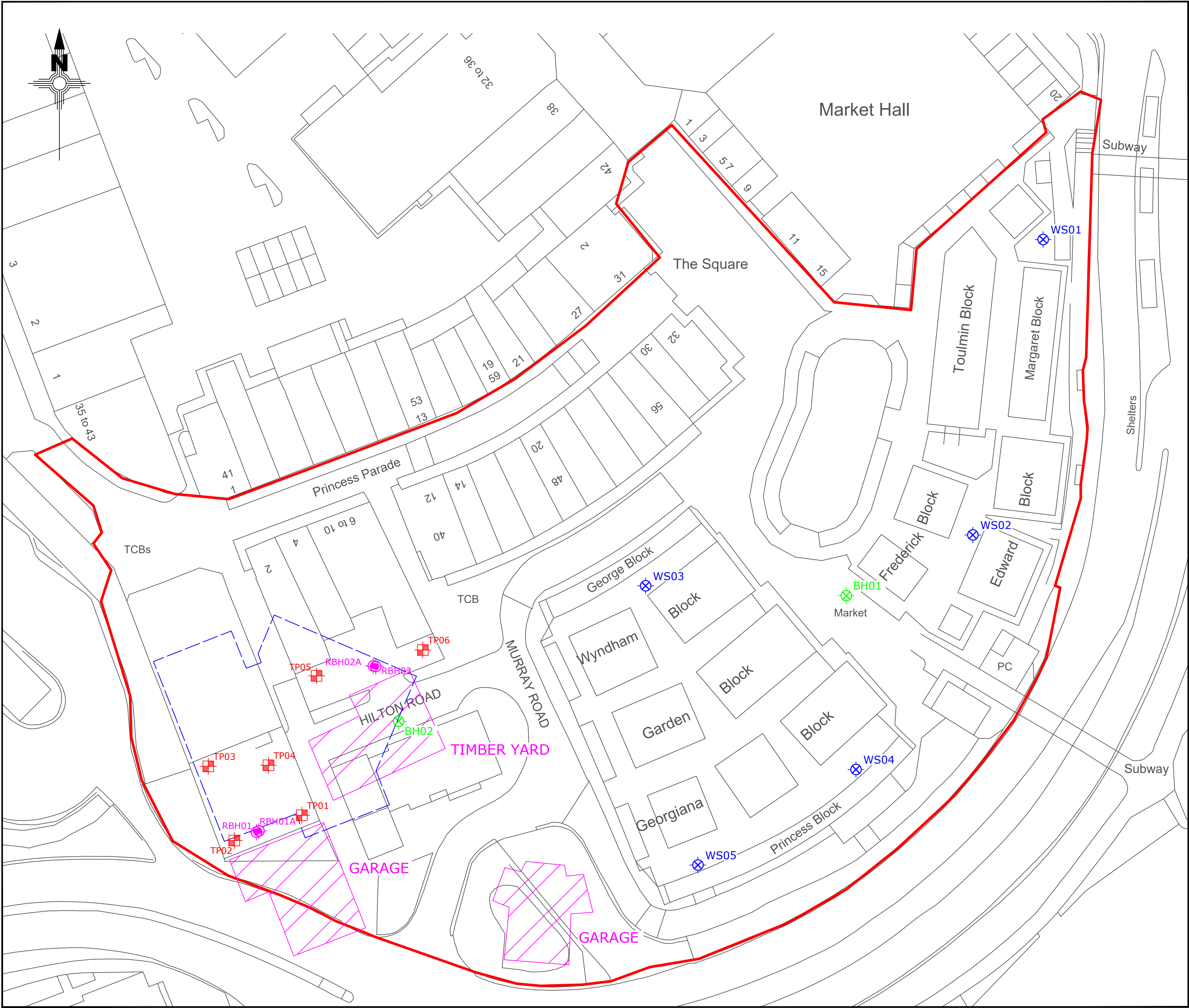
Engineer

For and on behalf of

ID Geoenvironmental Limited

Enc. ***Appendix A*** – Exploratory Hole Location Plan
 Appendix B – Exploratory Hole Records
 Appendix C – Core Run Photographs
 Appendix D – Contamination Analysis & Chemical Test Results
 Appendix E – Geotechnical Test Results

Appendix A



The Employer must not amend any drawing, design or other intellectual property produced by IDG, without permission in writing from IDG in advance of any amendments being made. In the event that such written permission is not obtained in advance of the amendments being made, IDG shall not be liable for any damage and/or losses occurring as a result of the amended drawing, design or other intellectual property.

KEY

- Site Boundary
- IDG CP Borehole Location
- IDG Window Sample Borehole Location
- Potential Contamination Source
- Approximate footprint of new building
- IDG Rotary Borehole Location - December 2024
- IDG Trial Pit Location - December 2024

Revision	Description	Date
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iGeo

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CLIENT

BURY COUNCIL

JOB TITLE

BURY MARKET

DRAWING TITLE

EXPLORATORY HOLE LOCATION PLAN (WITHOUT SERVICES)

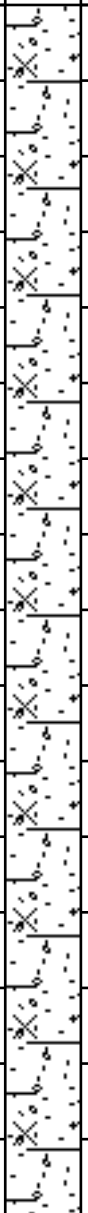
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FINAL

DRAWN BY	SIGNATURE	DATE
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APPROVED	SIGNATURE	DATE
LM		19/12/2024

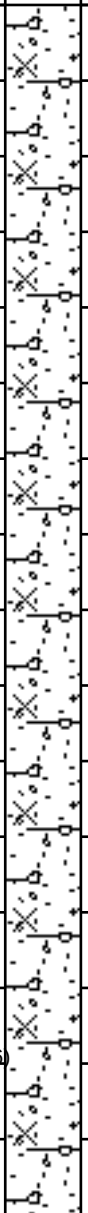
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Appendix B

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				Project Number: 5237			Client: Bury Council			Sheet 2 Of 16				
				GL (mAOD):			N Coord: 410516			E Coord: 380519				
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe	
2.00-2.45 SPT 2.00-2.45 T					N=19 (4,6,5,4)				Medium dense red-brown and yellow-brown clayey very gravelly SAND, with fine gravel of coal and some rounded cobbles of sandstone. Gravel is fine to coarse rounded sandstone and mudstone. (GRANULAR GLACIOFLUVIAL)					
									Borehole Continues					
3.00-3.45 SPT 3.00-3.45 T					N=20 (4,4,6,6)									
KEY				REMARKS					Water Strikes					
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level									Coordinates estimated from topographic survey. Hand dug pit to 1.3m					
Scale: 1:10									Date	Strike	Level	Minutes	Casing	Remarks
									09/12/2024	5	4.25			
									Daily Log Of Depths					Flushing Medium
Date	Casing	Water	From	To	Type									

 iD GeoEnvironmental Limited				Project Title: Bury Market						RBH01			
				Project Number: 5237			Client: Bury Council			Sheet 4 Of 16			
				GL (mAOD):			N Coord: 410516			E Coord: 380519			
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
5.00-5.45 SPT					N=23 (4,6,6,7)			5.00	Medium dense brown clayey very sandy GRAVEL, with fine gravel of coal and few cobbles of rounded mudstone. Gravel is fine to coarse angular to rounded mudstone, sandstone, quartzite and siltstone. (GRANULAR GLACIOFLUVIAL)				
6.00-6.45 SPT					N=18 (4,3,4,7)				Medium dense brown slightly clayey very gravelly SAND, with fine gravel of coal. Gravel is fine to coarse angular to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)				
								Borehole Continues					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10				Water Strikes					
								Date	Strike	Level	Minutes	Casing	Remarks
								09/12/2024	5	4.25			
								Daily Log Of Depths			Flushing Medium		
								Date	Casing	Water	From	To	Type

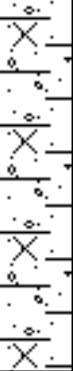
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				Project Number: 5237			Client: Bury Council		Sheet 7 Of 16					
				GL (mAOD):			N Coord: 410516		E Coord: 380519					
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe	
10.00-10.45 SPT					N=11 (2,1,2,6)				Dense dark brown clayey silty slightly cobbly very gravelly fine to medium grained SAND, with fine gravel of coal. Gravel is fine to coarse grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)					
									10.00 - 10.45 Becoming medium dense.					
11.00-11.45 SPT					N=39 (9,16,8,6)				Borehole Continues					
11.00-11.30 T														
KEY				REMARKS					Water Strikes					
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level									Coordinates estimated from topographic survey. Hand dug pit to 1.3m					
Scale: 1:10									Date	Strike	Level	Minutes	Casing	Remarks
									09/12/2024	5	4.25			
									Daily Log Of Depths			Flushing Medium		
									Date	Casing	Water	From	To	Type

 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH01					
				Project Number: 5237			Client: Bury Council							Sheet 8 Of 16	
				GL (mAOD):			N Coord: 410516			E Coord: 380519					
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES					
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe		
12.00-12.45 SPT					N=30 (5,6,10,9)			11.35	Dense dark brown clayey silty slightly cobbly very gravelly fine to medium grained SAND, with fine gravel of coal. Gravel is fine to coarse grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)						
									Dense brown clayey silty very sandy GRAVEL. Gravel is fine to medium grained subangular to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)						
12.30-12.45 D								12.30	Stiff to very stiff grey-brown slightly sandy silty slightly gravelly CLAY, with some fine gravel of coal. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)						
12.30-12.45 T									Borehole Continues						
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level						REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10				Water Strikes					
										Date	Strike	Level	Minutes	Casing	Remarks
										09/12/2024	5	4.25			
										Daily Log Of Depths			Flushing Medium		
										Date	Casing	Water	From	To	Type

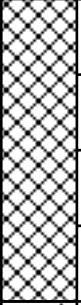
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				Project Number: 5237			Client: Bury Council		Sheet 9 Of 16					
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Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe	
13.00-13.30 U									Stiff to very stiff grey-brown slightly sandy silty slightly gravelly CLAY, with some fine gravel of coal. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)					
13.40 D 13.40 T														
14.00-14.45 D 14.00-14.45 SPT 14.00-14.45 T					N=35 (6,9,10,10)				14.00 - 14.45 Becoming Very stiff/hard.					
									Borehole Continues					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10					Water Strikes					
									Date	Strike	Level	Minutes	Casing	Remarks
									09/12/2024	5	4.25			
									Daily Log Of Depths			Flushing Medium		
									Date	Casing	Water	From	To	Type

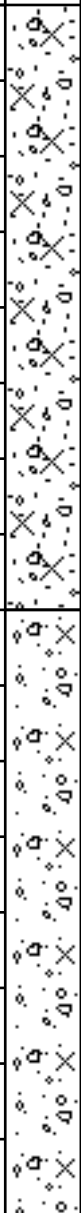
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				Project Number: 5237			Client: Bury Council		Sheet 10 Of 16				
				GL (mAOD):			N Coord: 410516		E Coord: 380519				
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
15.00-15.43 SPT									Stiff to very stiff grey-brown slightly sandy silty slightly gravelly CLAY, with some fine gravel of coal. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)				
									Borehole Continues				
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10				Water Strikes					
								Date	Strike	Level	Minutes	Casing	Remarks
								09/12/2024	5	4.25			
				Daily Log Of Depths				Flushing Medium					
				Date	Casing	Water	From	To	Type				

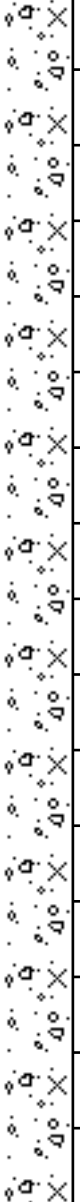
 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH01					
				Project Number: 5237			Client: Bury Council		Sheet 11 Of 16					
				GL (mAOD):			N Coord: 410516		E Coord: 380519					
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe	
16.50-16.55 SPT						pp 50/120mm		16.50	Stiff to very stiff grey-brown slightly sandy silty slightly gravelly CLAY, with some fine gravel of coal. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)					
								16.55						
16.50-18.00	0%	0%	0%						SPT sample recovery - weathered grey silty MUDSTONE. (WEATHERED LOWER PENNINE COAL MEASURES)					
									NO RECOVERY					
									Borehole Continues					
KEY				REMARKS					Water Strikes					
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level									DateStrikeLevelMinutesCasingRemarks					
Scale: 1:10				Coordinates estimated from topographic survey. Hand dug pit to 1.3m					09/12/202454.25					
									Daily Log Of Depths			Flushing Medium		
									DateCasingWater			FromToType		

 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH01							
				Project Number: 5237				Client: Bury Council				Sheet 13 Of 16					
				GL (mAOD):				N Coord: 410516				E Coord: 380519					
Date: 09/12/2024-12/12/2024				Method: Rotary				Driller: Central Alliance				Logged By: ES					
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description						Water	Standpipe	
									NO RECOVERY								
								19.45	Highly weathered dark grey silty MUDSTONE. Recovered as blocky sand and gravel sized mudstone lithorelics within a clayey matrix. (WEATHERED LOWER PENNINE COAL MEASURES)								
								19.50									
19.50-21.00	0%	0%	0%						NO RECOVERY								
									Borehole Continues								
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10				Water Strikes									
								Date	Strike	Level	Minutes	Casing	Remarks				
								09/12/2024	5	4.25							
								Daily Log Of Depths			Flushing Medium						
								Date	Casing	Water	From	To	Type				

 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH01																																																														
				Project Number: 5237			Client: Bury Council							Sheet 15 Of 16																																																									
				GL (mAOD):			N Coord: 410516		E Coord: 380519																																																														
Date: 09/12/2024-12/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES																																																													
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description				Water	Standpipe																																																									
22.50-24.00	100%	48.67%	33.0%					22.50	Dark grey weathered silty MUDSTONE. Recovered as blocky sand and gravel sized mudstone lithorelics within a clayey matrix. (Field rock description - Extremely weak). (WEATHERED LOWER PENNINE COAL MEASURES)																																																														
								22.83	Highly weathered dark grey silty MUDSTONE. Recovered as blocky sand and gravel sized mudstone lithorelics within a clayey matrix. (WEATHERED LOWER PENNINE COAL MEASURES)																																																														
								23.00	Completely shattered COAL band. (WEATHERED LOWER PENNINE COAL MEASURES)																																																														
								23.29	Fractured thinly laminated interbedded dark grey silty MUDSTONE and red-brown SANDSTONE, Predominately mudstone lithology. Fracture rough horizontal open. (Field rock description - Very weak). (LOWER PENNINE COAL MEASURES)																																																														
								23.41	Fractured thinly laminated interbedded red-brown fine grained SANDSTONE and dark grey silty MUDSTONE, Predominately mudstone lithology. Fracture rough slightly inclined open. (Field rock description - Very weak). (LOWER PENNINE COAL MEASURES)																																																														
								23.75	Fractured red-brown fine to medium grained SANDSTONE. Fracture rough vertical and horizontal open. (Field rock description - Weak). (LOWER PENNINE COAL MEASURES)																																																														
								24.00	Fractured thinly laminated interbedded dark grey silty MUDSTONE and red-brown fine grained SANDSTONE. Predominately mudstone lithology. Fracture rough horizontal open. (LOWER PENNINE COAL MEASURES)																																																														
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.3m Scale: 1:10				Borehole Log Continues <table><tr><td>Date</td><td>Strike</td><td>Level</td><td>Minutes</td><td>Casing</td><td>Remarks</td></tr><tr><td>09/12/2024</td><td>5</td><td>4.25</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="3">Daily Log Of Depths</td><td colspan="3">Flushing Medium</td></tr><tr><td>Date</td><td>Casing</td><td>Water</td><td>From</td><td>To</td><td>Type</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										Date	Strike	Level	Minutes	Casing	Remarks	09/12/2024	5	4.25																Daily Log Of Depths			Flushing Medium			Date	Casing	Water	From	To	Type																		
								Date	Strike	Level	Minutes	Casing	Remarks																																																										
								09/12/2024	5	4.25																																																													
								Daily Log Of Depths			Flushing Medium																																																												
								Date	Casing	Water	From	To	Type																																																										

 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02																																																				
				Project Number: 5237			Client: Bury Council			Sheet 2 Of 15																																																				
				GL (mAOD):			N Coord: 410548			E Coord: 380542																																																				
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES																																																				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe																																																	
2.00-2.45 SPT 2.00-2.45 T					N=22 (5,5,5,7)	2.00			MADE GROUND: Loose light grey-cream clayey sandy coarse gravel of limestone aggregate. (SUBBASE)																																																					
									Medium dense dark brown cobbly gravelly SAND, with some fine gravel of coal. Cobble and gravel are fine to coarse grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)																																																					
									Borehole Continues																																																					
3.00-3.45 SPT 3.00-3.45 T					N=23 (6,7,4,6)																																																									
KEY				REMARKS					Water Strikes																																																					
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10					<table><tr><td>Date</td><td>Strike</td><td>Level</td><td>Minutes</td><td>Casing</td><td>Remarks</td></tr><tr><td>13/12/2024</td><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="3">Daily Log Of Depths</td><td colspan="3">Flushing Medium</td></tr><tr><td>Date</td><td>Casing</td><td>Water</td><td>From</td><td>To</td><td>Type</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						Date	Strike	Level	Minutes	Casing	Remarks	13/12/2024	4																	Daily Log Of Depths			Flushing Medium			Date	Casing	Water	From	To	Type												
									Date	Strike	Level	Minutes	Casing	Remarks																																																
									13/12/2024	4																																																				
									Daily Log Of Depths			Flushing Medium																																																		
									Date	Casing	Water	From	To	Type																																																

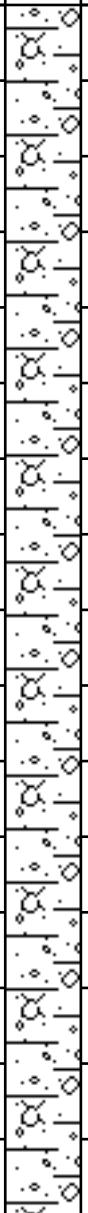
 iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02			
				Project Number: 5237			Client: Bury Council			Sheet 3 Of 15			
				GL (mAOD):			N Coord: 410548			E Coord: 380542			
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
4.00-4.45 SPT								4.00	Medium dense dark brown cobbly gravelly SAND, with some fine gravel of coal. Cobble and gravel are fine to coarse grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)				
									Medium dense brown slightly clayey very cobbly very sandy GRAVEL. Cobbles and gravel are fine to coarse grained subrounded to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)				
									Borehole Continues				
KEY				REMARKS				Water Strikes					
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level								Date	Strike	Level	Minutes	Casing	Remarks
				13/12/2024	4								
				Daily Log Of Depths				Flushing Medium					
Date	Casing	Water	From	To	Type								
Scale: 1:10													

 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH02					
				Project Number: 5237			Client: Bury Council		Sheet 4 Of 15					
				GL (mAOD):			N Coord: 410548		E Coord: 380542					
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe	
5.00-5.45 SPT					N=13 (4,3,3,3)				Medium dense brown slightly clayey very cobbly very sandy GRAVEL. Cobbles and gravel are fine to coarse grained subrounded to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)					
6.00-6.45 SPT					N=27 (5,7,8,7)									
									Borehole Continues					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10					Water Strikes					
									Date	Strike	Level	Minutes	Casing	Remarks
									13/12/2024	4				
									Daily Log Of Depths			Flushing Medium		
									Date	Casing	Water	From	To	Type

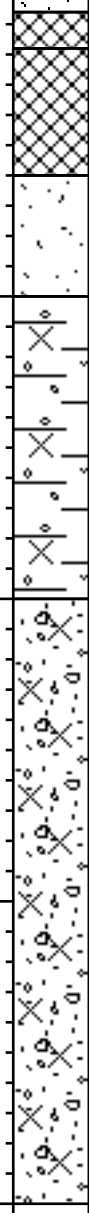
 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02							
				Project Number: 5237				Client: Bury Council				Sheet 6 Of 15					
				GL (mAOD):				N Coord: 410548				E Coord: 380542					
Date: 12/12/2024-17/12/2024				Method: Rotary				Driller: Central Alliance				Logged By: ES					
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description						Water	Standpipe	
9.00-9.45 SPT									Medium dense brown slightly clayey silty cobbly SAND and GRAVEL, with some fine gravel of coal. Cobbles and Gravel are fine to coarse grained subrounded to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)								
									Borehole Continues								
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10				Water Strikes									
								Date	Strike	Level	Minutes	Casing	Remarks				
								13/12/2024	4								
								Daily Log Of Depths						Flushing Medium			
Date	Casing	Water	From	To	Type												

 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH02				
				Project Number: 5237			Client: Bury Council		Sheet 7 Of 15				
				GL (mAOD):			N Coord: 410548		E Coord: 380542				
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
10.00-10.27 SPT 10.00-10.45 T					pp 50/120mm				Medium dense brown slightly clayey silty cobbly SAND and GRAVEL, with some fine gravel of coal. Cobbles and Gravel are fine to coarse grained subrounded to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)				
									10.00 - 10.27 Becoming very dense.				
									11.00 - 11.45 Becoming medium dense.				
11.00-11.45 SPT					N=22 (6,4,5,7)				Borehole Continues				
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10				Water Strikes					
								Date	Strike	Level	Minutes	Casing	Remarks
								13/12/2024	4				
								Daily Log Of Depths			Flushing Medium		
								Date	Casing	Water	From	To	Type

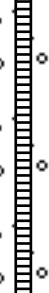
 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02																																																									
				Project Number: 5237				Client: Bury Council				Sheet 8 Of 15																																																							
				GL (mAOD):				N Coord: 410548				E Coord: 380542																																																							
Date: 12/12/2024-17/12/2024				Method: Rotary				Driller: Central Alliance				Logged By: ES																																																							
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description						Water	Standpipe																																																			
12.00-12.45 SPT 12.00-12.45 T								12.00	Medium dense brown slightly clayey silty cobbly SAND and GRAVEL, with some fine gravel of coal. Cobbles and Gravel are fine to coarse grained subrounded to rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)																																																										
									Very stiff/hard grey-brown slightly sandy silty cobbly very gravelly CLAY, with fine gravel of coal. Cobbles and gravel are fine to coarse subrounded to rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)																																																										
									Borehole Continues																																																										
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10				<table><tr><td colspan="6">Water Strikes</td></tr><tr><td>Date</td><td>Strike</td><td>Level</td><td>Minutes</td><td>Casing</td><td>Remarks</td></tr><tr><td>13/12/2024</td><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="3">Daily Log Of Depths</td><td colspan="3">Flushing Medium</td></tr><tr><td>Date</td><td>Casing</td><td>Water</td><td>From</td><td>To</td><td>Type</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						Water Strikes						Date	Strike	Level	Minutes	Casing	Remarks	13/12/2024	4																	Daily Log Of Depths			Flushing Medium			Date	Casing	Water	From	To	Type												
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Date	Strike	Level	Minutes	Casing	Remarks																																																														
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 iGeo iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02																																																									
				Project Number: 5237			Client: Bury Council			Sheet 10 Of 15																																																									
				GL (mAOD):			N Coord: 410548			E Coord: 380542																																																									
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES																																																									
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe																																																						
14.50 B									Very stiff/hard grey-brown slightly sandy silty cobbly very gravelly CLAY, with fine gravel of coal. Cobbles and gravel are fine to coarse subrounded to rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)																																																										
15.00-15.45 D 15.00-15.08 SPT 15.00-15.45 T					pp 50/160mm																																																														
15.50-15.85 B																																																																			
16.00-16.11 D 16.00-16.11 SPT 16.00-16.11 T					pp 50/70mm	16.00																																																													
									Borehole Continues																																																										
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level				REMARKS Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:10					<table><tr><td colspan="6">Water Strikes</td></tr><tr><td>Date</td><td>Strike</td><td>Level</td><td>Minutes</td><td>Casing</td><td>Remarks</td></tr><tr><td>13/12/2024</td><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td colspan="3">Daily Log Of Depths</td><td colspan="3">Flushing Medium</td></tr><tr><td>Date</td><td>Casing</td><td>Water</td><td>From</td><td>To</td><td>Type</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					Water Strikes						Date	Strike	Level	Minutes	Casing	Remarks	13/12/2024	4																	Daily Log Of Depths			Flushing Medium			Date	Casing	Water	From	To	Type												
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Date	Casing	Water	From	To	Type																																																														

 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH02			
				Project Number: 5237			Client: Bury Council					
				GL (mAOD):			N Coord: 410548		E Coord: 380542			
Date: 12/12/2024-17/12/2024				Method: Rotary			Driller: Central Alliance		Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description	Water	Standpipe	
22.00-23.50	66.67%	51.67%	44.33%									

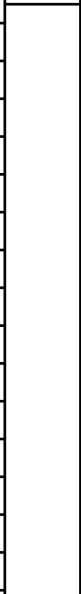
 iD GeoEnvironmental Limited				Project Title: Bury Market					RBH01A																																																													
				Project Number: 5237			Client: Bury Council		Sheet 1 Of 2																																																													
				GL (mAOD):			N Coord: 410516		E Coord: 380519																																																													
Date: 12/12/2024				Method: Rotary			Driller: Central Alliance		Logged By: ES																																																													
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe																																																									
								0.06	MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)																																																													
								0.18																																																														
								0.60	MADE GROUND: Brown sandy coarse gravel of limestone aggregate. (SUBBASE)																																																													
1.00	MADE GROUND: Black-brown very gravelly sand, with rare rootlets, red-brick, fragments of glass and rare gravel of clinker. (GRANULAR MADE GROUND)																																																																					
2.00	MADE GROUND: Relic foundation consisting of a red-brick wall with concrete footing. (RELIC FOUNDATION)																																																																					
3.00	Dark brown gravelly silty CLAY. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)																																																																					
4.00	Dark brown cobbly very gravelly medium to coarse grained SAND. Cobbles and gravel are fine to coarse grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)																																																																					
Borehole Continues																																																																						
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level							REMARKS No Groundwater Encountered Coordinates estimated from topographic survey.							Water Strikes <table><thead><tr><th>Date</th><th>Strike</th><th>Level</th><th>Minutes</th><th>Casing</th><th>Remarks</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> Daily Log Of Depths <table><thead><tr><th colspan="3">Flushing Medium</th></tr><tr><th>Date</th><th>Casing</th><th>Water</th><th>From</th><th>To</th><th>Type</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>						Date	Strike	Level	Minutes	Casing	Remarks																									Flushing Medium			Date	Casing	Water	From	To	Type												
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							Scale: 1:25																																																															

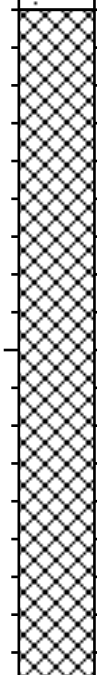
 iD GeoEnvironmental Limited			Project Title: Bury Market						RBH02A				
			Project Number: 5237			Client: Bury Council			Sheet 1 Of 2				
			GL (mAOD):			N Coord: 410548			E Coord: 380541				
Date: 17/12/2024			Method: Rotary			Driller: Central Alliance			Logged By: ES				
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
0.80 J 0.80 T 0.80 V								0.09	MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)				
								0.20					
								0.50	MADE GROUND: Brown sandy coarse gravel of limestone aggregate. (SUBBASE)				
1.00	MADE GROUND: Brown sandy coarse gravel of limestone aggregate, with rounded cobbles of mudstone and red-brick. (SUBBASE)												
2.00				MADE GROUND: Black-brown cobbly gravelly clayey sand, with gravel of coal, clinker, stone aggregate and fragments of ceramic pot. (GRANULAR MADE GROUND)									
3.00	Brown slightly clayey cobbly very sandy GRAVEL, with few fine gravel of coal. Cobble and gravel are fine to coarse rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)												
4.00				Borehole Continues									
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 			REMARKS No Groundwater Encountered Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:25			Water Strikes							
						Date	Strike	Level	Minutes	Casing	Remarks		
						Daily Log Of Depths			Flushing Medium				
						Date	Casing	Water	From	To	Type		

 iD GeoEnvironmental Limited				Project Title: Bury Market						RBH02A			
				Project Number: 5237			Client: Bury Council			Sheet 2 Of 2			
				GL (mAOD):			N Coord: 410548			E Coord: 380541			
Date: 17/12/2024				Method: Rotary			Driller: Central Alliance			Logged By: ES			
Core/Samples	TCR	SCR	RQD	FI	ISPT	Level	Legend	Depth (m)	Description			Water	Standpipe
								5.00	Brown slightly clayey cobbly very sandy GRAVEL, with few fine gravel of coal. Cobble and gravel are fine to coarse rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)				
									End Of Borehole At 5.00 m				
								6.00					
								7.00					
								8.00					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level 				REMARKS No Groundwater Encountered Coordinates estimated from topographic survey. Hand dug pit to 1.2m Scale: 1:25				Water Strikes					
								Date	Strike	Level	Minutes	Casing	Remarks
								Daily Log Of Depths			Flushing Medium		
								Date	Casing	Water	From	To	Type

 iD GeoEnvironmental Limited			Project Title: Bury Market			TP01	
			Project Number: 5237		Client: Bury Council		
			GL (mAOD):		N Coord: 410519	E Coord: 380527	
Date: 13/12/2024			Method: JCB 3CX		Logged By: ES	Scale: 1:20	
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water
						MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)	
					0.40	MADE GROUND: Dark brown sandy coarse gravel of limestone aggregate, with fragments of red-brick, a piece of paving slab and a single loose rebar noted. (SUBBASE)	
					0.53	MADE GROUND: CONCRETE slab with steel reinforcement bar. (CONCRETE HARDSTANDING)	
0.80 0.80 0.80	J T V					MADE GROUND: Brown slightly silty gravelly sand, with rootlets, roots, fragments of red brick, gravel of clinker, coal and coarse gravel of limestone aggregate. (Interpreted to be a reworked relic topsoil). (REWORKED RELIC TOPSOIL)	
1.00 - 1.25	B				1.00	Light cream-grey mottled brown very clayey silty gravelly SAND, with rootlets. Gravel is fine to medium grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)	
1.40 1.40	D T				1.25	Very friable red-brown mottled grey and orange slightly silty very sandy gravelly CLAY, with some rounded cobbles of sandstone. Gravel is fine to coarse rounded mudstone, sandstone and siltstone. (Unable to obtain a shear vane due to friability). (COHESIVE GLACIOFLUVIAL)	
1.60 1.60	D T				1.55	Very friable blue-grey cobbly silty sandy gravelly CLAY. (Unable to obtain a shear vane due to friability). (COHESIVE GLACIOFLUVIAL)	
1.90	V				1.75	Red-brown slightly clayey silty very cobbly very sandy GRAVEL. Gravel and cobbles are fine to coarse grained subangular to rounded mudstone, sandstone and siltstone. (GRANULAR GLACIOFLUVIAL)	
2.80 - 2.90	B				2.00	2.50 - 3.00 Discoloured grey-black layer with strong hydrocarbon odour, which becomes stronger with increasing depth.	
2.90 2.90 2.90	J T V				3.00	End Of Trial Pit At 3.10 m	
					3.10		
					4.00		
KEY D - Disturbed Sample B - Bulk Sample W - Water Sample V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 						REMARKS No Groundwater Encountered Side walls stable. Visual and olfactory evidence of hydrocarbon contamination encountered. Coordinates estimated from topographic survey.	

 iD GeoEnvironmental Limited			Project Title: Bury Market			TP02	
			Project Number: 5237		Client: Bury Council		
			GL (mAOD):		N Coord: 410514	E Coord: 380514	
Date: 13/12/2024			Method: JCB 3CX		Logged By: ES	Scale: 1:20	
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water
0.10 0.10 0.10	J T V	V=65			0.06 0.15	MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)	
0.30 0.30 0.30	J T V					MADE GROUND: Dark brown sandy angular gravel of limestone aggregate, with fragments of red-brick and a thin layer (<5mm thick) of red fine grained sand noted at the base. (SUBBASE)	
0.80 0.80	J T				0.70	MADE GROUND: Brown clayey gravelly cobby sand, with rootlets fragments of red-brick and concrete. Gravel and Cobbles are fine to medium grained rounded mudstone and limestone aggregate. (GRANULAR MADE GROUND)	
1.20 1.20 1.20	D SV T				1.00 1.15	0.40 - 0.70 Relic foundation consisting of a red-brick wall with concrete footing noted diagonally across the pit traversing NW-SE.	
1.50 - 1.70	B					Dark brown slightly gravelly SAND, with rootlets, roots and traces of organic matter. Gravel is fine to coarse rounded mudstone and sandstone. (Interpretated to be a buried topsoil). (RELIC TOPSOIL)	
2.00 - 2.20 2.00	B T				1.70	Brown-grey mottled yellow-brown very clayey slightly gravelly SAND, with rootlets, traces of organic matter and fine gravel of coal. Gravel is fine to medium grained rounded mudstone and sandstone. (GRANULAR GLACIOFLUVIAL)	
					2.00 2.20	Firm grey mottled red-brown very sandy slightly gravelly CLAY, with rootlets and few cobbles of fine grained rounded sandstone. Gravel is fine to medium grained rounded mudstone and sandstone. (COHESIVE GLACIOFLUVIAL)	
						1.20 Ex-situ shear vane.	
						Red-brown slightly clayey silty very cobbly very sandy GRAVEL. Gravel and cobbles are fine to coarse grained subangular to rounded mudstone, sandstone and siltstone. (GRANULAR GLACIOFLUVIAL)	
						End Of Trial Pit At 2.20 m	
					3.00		
					4.00		
KEY D - Disturbed Sample B - Bulk Sample W - Water Sample V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 						REMARKS No Groundwater Encountered Side walls stable. Coordinates estimated from topographic survey.	

 iD GeoEnvironmental Limited			Project Title: Bury Market				TP03	
			Project Number: 5237		Client: Bury Council			
			GL (mAOD):		N Coord: 410528		E Coord: 380509	
Date: 13/12/2024			Method: JCB 3CX		Logged By: ES		Scale: 1:20	
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	
					0.06	MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)		
					0.20	MADE GROUND: Brown sandy coarse gravel of limestone aggregate, with a thin layer (<5mm) of red fine grained sand noted below. (SUBBASE)		
2.00 - 2.30	B				1.00	MADE GROUND: Grey-brown sand to cobble sized angular silty mudstone, with some red-brown gravel to cobble sized sandstone. (Interpretated to potentially be a backfilled basement). (MUDSTONE BACKFILL)		
					2.00			
2.35 2.35 2.35	J T V				2.30	MADE GROUND: Dark black-brown gravelly very sandy clay, with fragments of red-brick and fine gravel of coal. Gravel is fine to medium grained subangular mudstone. Placed yellow-brown medium grained sandstone sets (~380mm width by ~340mm length by ~150mm thick) were noted at the surface. (COHESIVE MADE GROUND)		
					2.40 2.45			
					3.00	Trial pit could not be advanced further due to multiple significant side wall collapses within the quarried stone backfill.		
					4.00			
KEY					REMARKS			
D - Disturbed Sample					No Groundwater Encountered Side walls unstable. Coordinates estimated from topographic survey.			
B - Bulk Sample								
W - Water Sample								
V - Hand Shear Vane kPa								
 - Groundwater Strike  - Groundwater Level								

 iD GeoEnvironmental Limited			Project Title: Bury Market			TP04	
			Project Number: 5237		Client: Bury Council		
			GL (mAOD):		N Coord: 410529	E Coord: 380521	
Date: 13/12/2024			Method: JCB 3CX		Logged By: ES	Scale: 1:20	
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water
					0.10	MADE GROUND: MACADAM hardstanding. (MACADAM HARDSTANDING)	
					1.00	MADE GROUND: Grey-brown sand to cobble sized angular silty mudstone, with some red-brown gravel to cobble sized sandstone. (Interpretated to potentially be a backfilled basement). (MUDSTONE BACKFILL)	
					1.90	1.00 - 1.38 Corner of an old red-brick wall noted in the NE end of the trial pit.	
					2.00		
						MADE GROUND: Dark black-brown gravelly very sandy clay, with fragments of red-brick, a piece of metal pipe and fine gravel of coal. Gravel is fine to medium grained subangular mudstone. Placed yellow-brown medium grained sandstone sets (~380mm width by ~340mm length by ~150mm thick) were noted at the surface. (COHESIVE MADE GROUND)	
						Trial pit could not be advanced further due to multiple significant side wall collapses within the quarried stone backfill.	
						End Of Trial Pit At 2.05 m	
					3.00		
					4.00		
KEY D - Disturbed Sample B - Bulk Sample W - Water Sample V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 						REMARKS No Groundwater Encountered Side walls unstable. Coordinates estimated from topographic survey.	

 iD GeoEnvironmental Limited			Project Title: Bury Market			TP06	
			Project Number: 5237		Client: Bury Council	Sheet 1 Of 1	
			GL (mAOD):		N Coord: 410551	E Coord: 380551	
Date: 13/12/2024			Method: JCB 3CX		Logged By: ES		Scale: 1:20
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water
0.70 0.70 0.70	J T V			                 			

Appendix C

Client	Vinci Construction Ltd.	Project No.	5237
Project	Bury Market, Bury	Date	9 th December to 17 th December 2024
Photograph 1: RBH01 – Core Runs 18.5 to 19.5m (left) and 21.5 to 22.5m (right)			
Photograph 2: RBH01 – Core Run 22.5 to 24.0m (Left Photo- 22.5 to 23.5m) (Right Photo - 23.5 to 24.0m)			

Client	Vinci Construction Ltd.	Project No.	5237
Project	Bury Market, Bury	Date	9 th December to 17 th December 2024
Photograph 3: RBH02 – Core Run 16.0 to 17.5m (Left Photo - 16.0 to 17.0m) (Right Photo - 17.0 to 17.5m)			
Photograph 4: RBH02 – Core Run 17.5 to 19.0m (Left Photo - 17.5 to 18.0m) (Right Photo - 18.0 to 19.0m)			

Client	Vinci Construction Ltd.	Project No.	5237
Project	Bury Market, Bury	Date	9 th December to 17 th December 2024
Photograph 5: RBH02 – Core Run 19.0 to 20.5m			
Photograph 6: RBH02 – Core Run 20.5 to 22.0m (Left Photo – 20.5 to 21.0m) (Right Photo – 21.0 to 22.0m)			

Client	Vinci Construction Ltd.	Project No.	5237
Project	Bury Market, Bury	Date	9 th December to 17 th December 2024
Photograph 7: RBH02 – Core Run 22.0 to 23.5m			

Appendix D

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 24/12486
Issue Number: 1
Date: 07 January, 2025

Client: iD GeoEnvironmental Ltd (Congleton)
Dane Mill Business Centre
Broadhurst Lane
Congleton
CW12 1LA

Project Manager: Ellen Smits/Liam Murphy
Project Name: Bury Market, Bury
Project Ref: 5237
Order No: N/A
Date Samples Received: 23/12/24
Date Instructions Received: 24/12/24
Date Analysis Completed: 07/01/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/1	24/12486/2	24/12486/3	24/12486/4	24/12486/5	24/12486/6	24/12486/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH01	RBH01	RBH01	RBH01	RBH01	RBH01	RBH01			
Depth to Top	1.30	2.00	3.00	7.00	8.00	9.00	11.00			
Depth To Bottom	1.75	2.45	3.45	7.45	8.45	9.45	11.30			
Date Sampled	09-Dec-24	09-Dec-24	09-Dec-24	10-Dec-24	10-Dec-24	10-Dec-24	10-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	4A	4A	4A	4A	4A	6A	4A			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH ₀ ^{M#}	8.37	7.74	7.97	8.78	8.68	8.62	8.76	pH	0.01	A-T-031s
Sulphate (water sol 2:1) ₀ ^{M#}	0.05	-	-	0.04	0.05	-	-	g/l	0.01	A-T-026s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/8	24/12486/9	24/12486/10	24/12486/11	24/12486/12	24/12486/13	24/12486/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH01	RBH01	RBH02	RBH02	RBH02	RBH02	RBH02			
Depth to Top	12.30	14.00	1.00	2.00	3.00	10.00	12.00			
Depth To Bottom	12.45	14.45	1.45	2.45	3.45	10.45	12.45			
Date Sampled	10-Dec-24	10-Dec-24	12-Dec-24	12-Dec-24	12-Dec-24	13-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOLID	SOIL			
Sample Matrix Code	6A	6A	5A	4A	5AB	7	3			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH ₀ ^{M#}	8.27	8.48	7.26	6.35	7.08	8.88 ^U	8.30	pH	0.01	A-T-031s
Sulphate (water sol 2:1) ₀ ^{M#}	-	0.02	-	0.01	-	0.03 ^U	-	g/l	0.01	A-T-026s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/15	24/12486/16	24/12486/17	24/12486/18	24/12486/19	24/12486/20	24/12486/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH02	RBH02	RBH02	RBH02	RBH02	RBH02A	TP01			
Depth to Top	13.00	13.00	14.00	15.00	16.00	0.80	0.80			
Depth To Bottom		13.45	14.45	15.45	16.11					
Date Sampled	15-Dec-24	16-Dec-24	16-Dec-24	16-Dec-24	17-Dec-24	17-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6A	5A	3	5A	6A	6A	4ABE			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	8.45	8.60	8.41	8.59	8.43	6.56	7.69	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	-	-	0.01	-	-	-	g/l	0.01	A-T-026s
Total Organic Carbon _D ^{M#}	-	-	-	-	-	6.87	6.67	% w/w	0.08	A-T-032s
Arsenic _D ^{M#}	-	-	-	-	-	8	18	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	-	-	-	-	0.6	2.3	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	-	-	-	86	225	mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	-	-	-	15	14	mg/kg	1	A-T-024s
Lead _D ^{M#}	-	-	-	-	-	74	693	mg/kg	1	A-T-024s
Mercury _D	-	-	-	-	-	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	-	-	-	16	36	mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	-	-	-	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	-	-	-	66	73	mg/kg	5	A-T-024s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/15	24/12486/16	24/12486/17	24/12486/18	24/12486/19	24/12486/20	24/12486/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH02	RBH02	RBH02	RBH02	RBH02	RBH02A	TP01			
Depth to Top	13.00	13.00	14.00	15.00	16.00	0.80	0.80			
Depth To Bottom		13.45	14.45	15.45	16.11					
Date Sampled	15-Dec-24	16-Dec-24	16-Dec-24	16-Dec-24	17-Dec-24	17-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6A	5A	3	5A	6A	6A	4ABE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	-	-	-	-	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	-			A-T-045

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/15	24/12486/16	24/12486/17	24/12486/18	24/12486/19	24/12486/20	24/12486/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	RBH02	RBH02	RBH02	RBH02	RBH02	RBH02A	TP01			
Depth to Top	13.00	13.00	14.00	15.00	16.00	0.80	0.80			
Depth To Bottom		13.45	14.45	15.45	16.11					
Date Sampled	15-Dec-24	16-Dec-24	16-Dec-24	16-Dec-24	17-Dec-24	17-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6A	5A	3	5A	6A	6A	4ABE			
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	-	-	-	<0.01	0.17	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	-	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	-	-	-	-	<0.02	0.19	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	-	-	-	<0.04	0.16	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	-	-	-	<0.04	0.11	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	-	-	-	<0.05	0.14	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	-	-	-	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	-	-	-	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	-	-	-	-	<0.06	0.17	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	-	-	-	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	-	-	-	-	<0.08	0.58	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	-	-	-	-	<0.01	0.14	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	-	-	-	<0.03	0.05	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	-	-	-	-	<0.03	0.10	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	-	-	-	-	<0.03	0.94	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	-	-	-	-	<0.07	0.46	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	-	-	-	<0.08	3.21	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/22	24/12486/23	24/12486/24	24/12486/25	24/12486/26	24/12486/27	24/12486/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP01	TP01	TP02	TP02	TP02			
Depth to Top	1.40	1.60	1.90	2.90	0.10	0.30	0.80			
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6A	4A	4AE	4A	6AE	4AE			
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	6.88	6.05	-	7.26	8.61	7.90	6.93	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	0.05	-	-	-	-	-	g/l	0.01	A-T-026s
Total Organic Carbon _D ^{M#}	-	-	-	0.97	-	1.51	-	% w/w	0.08	A-T-032s
Arsenic _D ^{M#}	-	-	-	1	-	6	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	-	-	0.5	-	0.6	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	-	22	-	29	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	-	21	-	24	-	mg/kg	1	A-T-024s
Lead _D ^{M#}	-	-	-	15	-	38	-	mg/kg	1	A-T-024s
Mercury _D	-	-	-	<0.17	-	<0.17	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	-	20	-	25	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	-	<1	-	<1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	-	54	-	63	-	mg/kg	5	A-T-024s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/22	24/12486/23	24/12486/24	24/12486/25	24/12486/26	24/12486/27	24/12486/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP01	TP01	TP02	TP02	TP02			
Depth to Top	1.40	1.60	1.90	2.90	0.10	0.30	0.80			
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6A	4A	4AE	4A	6AE	4AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	-	-	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	-			A-T-045

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/22	24/12486/23	24/12486/24	24/12486/25	24/12486/26	24/12486/27	24/12486/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP01	TP01	TP02	TP02	TP02			
Depth to Top	1.40	1.60	1.90	2.90	0.10	0.30	0.80			
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6A	4A	4AE	4A	6AE	4AE			
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	-	0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	-	-	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	-	-	<0.02	-	<0.02	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	-	<0.04	-	<0.04	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	-	<0.04	-	<0.04	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	-	<0.05	-	0.06	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	-	<0.05	-	<0.05	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	-	<0.07	-	<0.07	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	-	-	<0.06	-	0.07	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	-	<0.04	-	<0.04	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	-	-	<0.08	-	0.12	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	-	-	0.03	-	<0.01	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	-	<0.03	-	<0.03	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	-	-	<0.03	-	<0.03	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	-	-	0.05	-	0.05	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	-	-	<0.07	-	0.13	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	-	0.09	-	0.43	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/22	24/12486/23	24/12486/24	24/12486/25	24/12486/26	24/12486/27	24/12486/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP01	TP01	TP01	TP02	TP02	TP02			
Depth to Top	1.40	1.60	1.90	2.90	0.10	0.30	0.80			
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24			
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
Sample Matrix Code	6AE	6A	4A	4AE	4A	6AE	4AE			
TPH CWG with Clean Up										
Ali >C5-C6 _A	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	-	-	<1	<1	-	-	-	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	-	-	<1	10	-	-	-	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	-	-	5	48	-	-	-	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	-	-	14	53	-	-	-	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	-	-	101	67	-	-	-	mg/kg	1	A-T-055s
Total Aliphatics _A	-	-	120	179	-	-	-	mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	-	-	<1	<1	-	-	-	mg/kg	1	A-T-055s
Aro >C10-C12 _A	-	-	<1	13	-	-	-	mg/kg	1	A-T-055s
Aro >C12-C16 _A	-	-	43	108	-	-	-	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	-	-	201	83	-	-	-	mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	-	-	57	22	-	-	-	mg/kg	1	A-T-055s
Total Aromatics _A	-	-	302	225	-	-	-	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	-	-	422	404	-	-	-	mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s
MTBE _A [#]	-	-	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-022s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/29	24/12486/30	24/12486/31	24/12486/32	24/12486/33			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP02	TP02	TP03	TP05	TP06					
Depth to Top	1.20	2.00	2.35	0.40	0.70					
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	6A	4A	6A	4AB	4AB					
% Stones >10mm _A	<0.1	<0.1	<0.1	<0.1	<0.1			% w/w	0.1	A-T-044
pH _D ^{M#}	7.52	6.52	8.00	8.54	9.79			pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	-	0.06	-	-	-			g/l	0.01	A-T-026s
Total Organic Carbon _D ^{M#}	-	-	1.84	-	1.73			% w/w	0.08	A-T-032s
Arsenic _D ^{M#}	-	-	7	-	10			mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	-	0.7	-	<0.5			mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	-	34	-	30			mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	-	29	-	12			mg/kg	1	A-T-024s
Lead _D ^{M#}	-	-	117	-	576			mg/kg	1	A-T-024s
Mercury _D	-	-	<0.17	-	2.05			mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	-	25	-	12			mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	-	<1	-	<1			mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	-	71	-	88			mg/kg	5	A-T-024s

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/29	24/12486/30	24/12486/31	24/12486/32	24/12486/33			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP02	TP02	TP03	TP05	TP06					
Depth to Top	1.20	2.00	2.35	0.40	0.70					
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	6A	4A	6A	4AB	4AB					
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	-	-	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					A-T-045

Envirolab Job Number: 24/12486

Client Project Name: Bury Market, Bury

Client Project Ref: 5237

Lab Sample ID	24/12486/29	24/12486/30	24/12486/31	24/12486/32	24/12486/33			Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP02	TP02	TP03	TP05	TP06					
Depth to Top	1.20	2.00	2.35	0.40	0.70					
Depth To Bottom										
Date Sampled	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24	13-Dec-24					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL					
Sample Matrix Code	6A	4A	6A	4AB	4AB					
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	<0.01	-	0.09			mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	-	<0.01	-	0.01			mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	-	<0.02	-	0.15			mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	-	<0.04	-	0.41			mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	-	<0.04	-	0.42			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	-	<0.05	-	0.54			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	-	<0.05	-	0.22			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	-	<0.07	-	0.19			mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	-	<0.06	-	0.49			mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	-	<0.04	-	<0.04			mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	-	<0.08	-	1.22			mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	-	<0.01	-	0.05			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	-	<0.03	-	0.22			mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	-	<0.03	-	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	-	<0.03	-	0.63			mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	-	<0.07	-	1.09			mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	-	<0.08	-	5.73			mg/kg	0.01	A-T-019s

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- 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.
- 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.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

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 “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
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
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: 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

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. 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. 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). “TRACE” will be reported as a quantification result.

PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

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 calibration 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: iD GeoEnvironmental Ltd (Congleton), Dane Mill Business Centre, Broadhurst Lane, Congleton, CW12 1LA

Project: Bury Market, Bury

Clients Project No: 5237

Project No: 24/12486

Date Received: 24/12/2024 (am)

Cool Box Temperatures (°C): 8.1 - 9.5

Lab Sample ID	24/12486/20	24/12486/24
Client Sample No		
Client Sample ID/Depth	RBH02A 0.80m	TP01 1.90m
Date Sampled	17/12/24	13/12/24
Deviation Code		
B1 (no VPH)		✓
D (no glass)	✓	

Key

B1 (no VPH)

Separate container not supplied for VPH/BTEX analysis

D (no glass)

Glass container not provided for extractable organics analysis

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	24/12486/1	24/12486/2	24/12486/3	24/12486/4	24/12486/5	24/12486/6	24/12486/7	24/12486/8	24/12486/9	24/12486/10	24/12486/11
Client Sample No											
Client Sample ID/Depth	RBH01 1.30-1.75m	RBH01 2.00-2.45m	RBH01 3.00-3.45m	RBH01 7.00-7.45m	RBH01 8.00-8.45m	RBH01 9.00-9.45m	RBH01 11.00-11.30m	RBH01 12.30-12.45m	RBH01 14.00-14.45m	RBH02 1.00-1.45m	RBH02 2.00-2.45m
Date Sampled	09/12/24	09/12/24	09/12/24	10/12/24	10/12/24	10/12/24	10/12/24	10/12/24	10/12/24	12/12/24	12/12/24
A-T-019s											
A-T-022s											
A-T-024s											
A-T-026s	06/01/2025			06/01/2025	06/01/2025				07/01/2025		06/01/2025
A-T-031s	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025
A-T-032s											
A-T-044	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025
A-T-045											
A-T-055s											
Calc-As Recd											

Lab Sample ID	24/12486/12	24/12486/13	24/12486/14	24/12486/15	24/12486/16	24/12486/17	24/12486/18	24/12486/19	24/12486/20	24/12486/21	24/12486/22
Client Sample No											
Client Sample ID/Depth	RBH02 3.00-3.45m	RBH02 10.00-10.45m	RBH02 12.00-12.45m	RBH02 13.00m	RBH02 13.00-13.45m	RBH02 14.00-14.45m	RBH02 15.00-15.45m	RBH02 16.00-16.11m	RBH02A 0.80m	TP01 0.80m	TP01 1.40m
Date Sampled	12/12/24	13/12/24	13/12/24	15/12/24	16/12/24	16/12/24	16/12/24	17/12/24	17/12/24	13/12/24	13/12/24
A-T-019s									02/01/2025	02/01/2025	
A-T-022s											
A-T-024s									06/01/2025	06/01/2025	
A-T-026s		06/01/2025					06/01/2025				
A-T-031s	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025
A-T-032s									06/01/2025	06/01/2025	
A-T-044	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025
A-T-045									02/01/2025		
A-T-055s											
Calc-As Recd											

Lab Sample ID	24/12486/23	24/12486/24	24/12486/25	24/12486/26	24/12486/27	24/12486/28	24/12486/29	24/12486/30	24/12486/31	24/12486/32	24/12486/33
Client Sample No											
Client Sample ID/Depth	TP01 1.60m	TP01 1.90m	TP01 2.90m	TP02 0.10m	TP02 0.30m	TP02 0.80m	TP02 1.20m	TP02 2.00m	TP03 2.35m	TP05 0.40m	TP06 0.70m
Date Sampled	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24	13/12/24
A-T-019s			02/01/2025		02/01/2025				02/01/2025		02/01/2025
A-T-022s		02/01/2025	02/01/2025								
A-T-024s			06/01/2025		06/01/2025				06/01/2025		06/01/2025
A-T-026s	06/01/2025							06/01/2025			
A-T-031s	06/01/2025		06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025	06/01/2025
A-T-032s			06/01/2025		06/01/2025				06/01/2025		06/01/2025
A-T-044	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025	03/01/2025
A-T-045			02/01/2025		02/01/2025				02/01/2025		02/01/2025
A-T-055s		03/01/2025	03/01/2025								
Calc-As Recd		03/01/2025	03/01/2025								

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

[illegible]

Hole ID	Depth (m)	Material	Table 3 Phytotoxic Assessment: Concentrations in mg/kg unless otherwise stated. Critical Concentrations are dependant on pH value of the material.												
			pH	Cu [§]				Ni [§]				Zn [§]			
				5.0-5.5	5.5-6.0	6.0-7.0	7.0+	5.0-5.5	5.5-6.0	6.0-7.0	7.0+	5.0-5.5	5.5-6.0	6.0-7.0	7.0+
RBH01	1.30 - 1.75	GRANULAR GLACIOFLUVIAL	8.37	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	2.00 - 2.45	GRANULAR GLACIOFLUVIAL	7.74	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	3.00 - 3.45	GRANULAR GLACIOFLUVIAL	7.97	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	7.00 - 7.45	GRANULAR GLACIOFLUVIAL	8.78	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	8.00 - 8.45	GRANULAR GLACIOFLUVIAL	8.68	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	9.00 - 9.45	GRANULAR GLACIOFLUVIAL	8.62	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	11.00 - 11.30	GRANULAR GLACIOFLUVIAL	8.76	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	12.30 - 12.45	COHESIVE GLACIOFLUVIAL	8.27	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	14.00 - 14.45	COHESIVE GLACIOFLUVIAL	8.48	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	1.00 - 1.45	GRANULAR MADE GROUND	7.26	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	2.00 - 2.45	GRANULAR GLACIOFLUVIAL	6.35	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	3.00 - 3.45	GRANULAR GLACIOFLUVIAL	7.08	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	10.00 - 10.45	GRANULAR GLACIOFLUVIAL	8.88	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	12.00 - 12.45	COHESIVE GLACIOFLUVIAL	8.3	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	13.00	COHESIVE GLACIOFLUVIAL	8.45	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	13.00 13.45	COHESIVE GLACIOFLUVIAL	8.6	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	14.00 - 14.45	COHESIVE GLACIOFLUVIAL	8.41	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	15.00 - 15.45	COHESIVE GLACIOFLUVIAL	8.59	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	16.00 - 16.11	MUDSTONE	8.43	-	-	-	-	-	-	-	-	-	-	-	-
RBH02A	0.80	GRANULAR MADE GROUND	6.56	-	-	86	-	-	-	16	-	-	-	66	-
TP01	0.80	REWORKED RELIC TOPSOIL	7.69	-	-	-	225	-	-	-	36	-	-	-	73
TP01	1.40	COHESIVE GLACIOFLUVIAL	6.88	-	-	-	-	-	-	-	-	-	-	-	-
TP01	1.60	COHESIVE GLACIOFLUVIAL	6.05	-	-	-	-	-	-	-	-	-	-	-	-
TP01	1.90	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	2.90	GRANULAR GLACIOFLUVIAL	7.26	-	-	-	22	-	-	-	20	-	-	-	54
TP02	0.10	SUBBASE	8.61	-	-	-	-	-	-	-	-	-	-	-	-
TP02	0.30	GRANULAR MADE GROUND	7.9	-	-	-	29	-	-	-	25	-	-	-	63
TP02	0.80	RELIC TOPSOIL	6.93	-	-	-	-	-	-	-	-	-	-	-	-
TP02	1.20	GRANULAR GLACIOFLUVIAL	7.52	-	-	-	-	-	-	-	-	-	-	-	-
TP02	2.00	GRANULAR GLACIOFLUVIAL	6.52	-	-	-	-	-	-	-	-	-	-	-	-
TP03	2.35	COHESIVE MADE GROUND	8	-	-	-	34	-	-	-	25	-	-	-	71
TP05	0.40	BRICK BACKFILL	8.54	-	-	-	-	-	-	-	-	-	-	-	-
TP06	0.70	BRICK BACKFILL	9.79	-	-	-	30	-	-	-	12	-	-	-	88
Key						Source of Critical Concentration									
BOLD	Determinand in excess of critical concentration					§	Department of Environment Code of Practice for Agricultural use of Sewage Sludge Revised 2006								
-	Determinand not tested for														
<	Determinand concentration is below indicated "method" level of detection														

Hole ID	Depth (m)	Material	Table 5 Speciated Total Petroleum Hydrocarbons : Concentrations in mg/kg unless otherwise stated. Critical Concentrations (GAC) are shown below																			
			TOC	SOM	BTEX				Aliphatic TPH Bandings							Aromatic TPH Bandings						
					Benzene	Toluene	Ethyl Benzene	Xylenes	C ₅ -C ₈	C ₆ -C ₈	C ₉ -C ₁₀	C ₁₀ -C ₁₂	C ₁₂ -C ₁₆	C ₁₆ -C ₂₁	C ₂₁ -C ₃₅	EC ₅ -EC ₇	EC ₇ -EC ₈	EC ₈ -EC ₁₀	EC ₁₀ -EC ₁₂	EC ₁₂ -EC ₁₆	EC ₁₆ -EC ₂₁	EC ₂₁ -EC ₃₅
S4UL Commerial (1% SOM)			%	%	27	56000	5700	5900	3200	7800	2000	9700	59000	1600000	1600000	26000	56000	3500	16000	36000	28000	28000
RBH01	1.30 - 1.75	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	2.00 - 2.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	3.00 - 3.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	7.00 - 7.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	8.00 - 8.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	9.00 - 9.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	11.00 - 11.30	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	12.30 - 12.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH01	14.00 - 14.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	1.00 - 1.45	GRANULAR MADE GROUND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	2.00 - 2.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	3.00 - 3.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	10.00 - 10.45	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	12.00 - 12.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	13.00	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	13.00 13.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	14.00 - 14.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	15.00 - 15.45	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02	16.00 - 16.11	MUDSTONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RBH02A	0.80	GRANULAR MADE GROUND	6.87	11.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	0.80	REWORKED RELIC TOPSOIL	6.67	11.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	1.40	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	1.60	COHESIVE GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01	1.90	GRANULAR GLACIOFLUVIAL	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	5	14	101	<0.01	<0.01	<1	<1	43	201	57
TP01	2.90	GRANULAR GLACIOFLUVIAL	0.97	1.67	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	10	48	53	67	<0.01	<0.01	<1	13	108	83	22
TP02	0.10	SUBBASE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02	0.30	GRANULAR MADE GROUND	1.51	2.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02	0.80	RELIC TOPSOIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02	1.20	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02	2.00	GRANULAR GLACIOFLUVIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03	2.35	COHESIVE MADE GROUND	1.84	3.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05	0.40	BRICK BACKFILL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06	0.70	BRICK BACKFILL	1.73	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key		Source of Critical Concentration
BOLD	Parameter tested and found to be in excess of critical concentration	For source of Generic Assessment Criteria refer to Generic Notes 4 "Contamination Assessment"
-	Determinand not tested for	
<	Determinand concentration is below indicated “method” level of detection	

Appendix E



LABORATORY REPORT



Contract Number: PSL24/9463

Report Date: 27 January 2025

Client's Reference: 5237

Client Name: ID Geo Environmental
Dane Mill Business Centre
Broadhurst Lane
Congleton
Cheshire
CW12 1LA

For the attention of: Ellen Smits

Contract Title: Bury Market, Bury

Date Received: 20/12/2025

Date Commenced: 20/12/2025

Date Completed: 27/01/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. 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 other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Managing Director)

R Berriman
(Associate Director)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)


D Nicholson
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Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043



Bury Market, Bury

Contract No:

PSL24/9463

Client Ref:

5237

SUMMARY OF SOIL CLASSIFICATION TESTS

BS 1377 - Part 2 : 2022 in accordance with BS EN ISO 17892 (as below)

[illegible]

Water Content - BS 1377 - Part 2 : 2022 : Clause 4 in accordance with BS EN ISO 17892 - 1 : 2014 + A1 : 2022

Linear Shrinkage - BS 1377 - Part 2 : 2022 : Clause 7

Particle Density (Gas Jar method) - BS 1377 - Part 2 : 2022 : Clause 9

Liquid, Plastic Limit & Plasticity Index - BS 1377 - Part 2 : 2022 : Clause 5 & 6 in accordance with BS EN ISO 17892 - 12 : 2018 + A2 : 2022

SYMBOLS : NP = Non Plastic



Bury Market, Bury

Contract No:

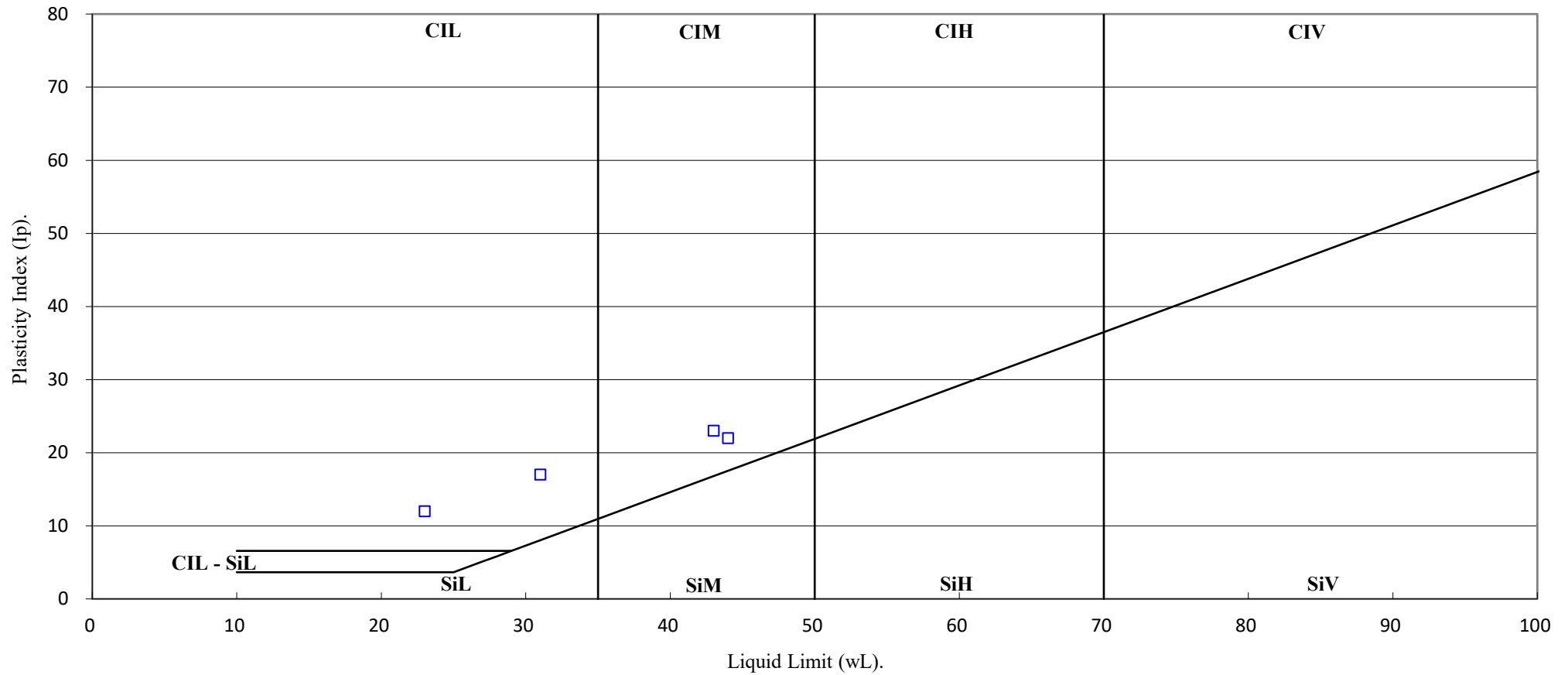
PSL24/9463

Client Ref:

5237

PLASTICITY CHART

BS EN ISO 14688-2:2017 Clause 4.4



4043



Bury Market, Bury

Contract No:

PSL24/9463

Client Ref:

5237

PARTICLE SIZE DISTRIBUTION TEST

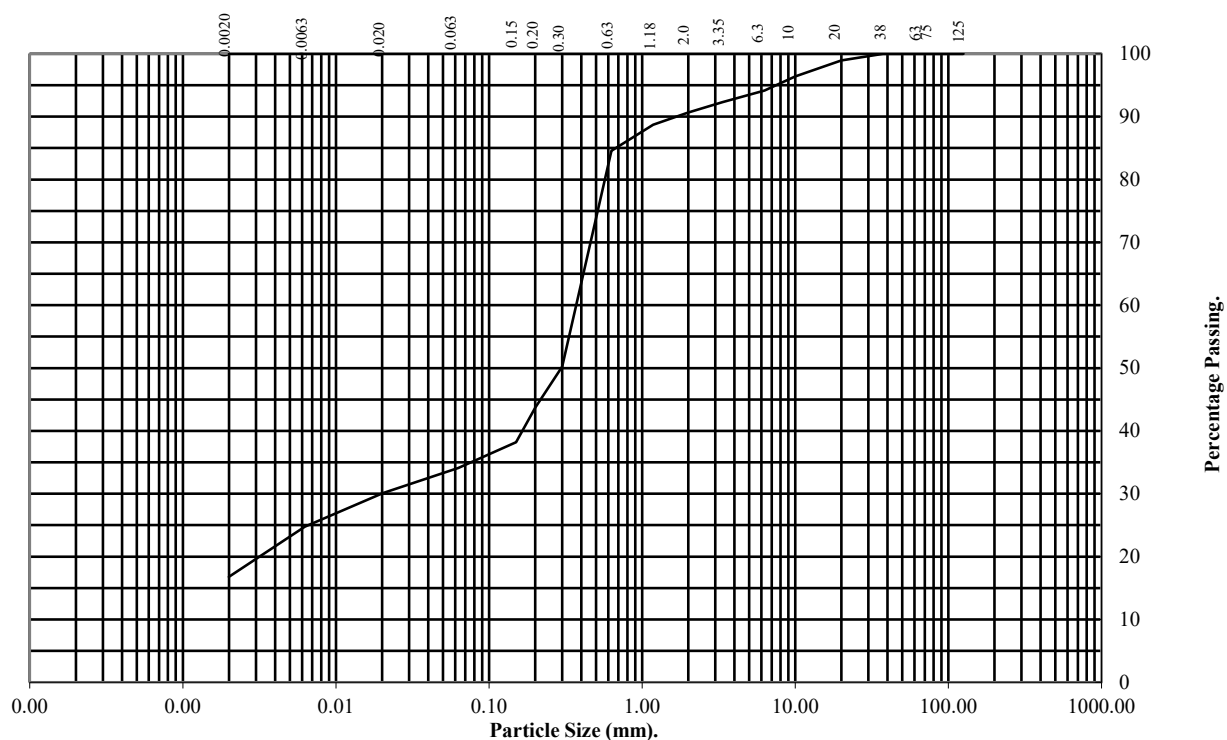
BS 1377 - Part 2 : 2022 : Clause 10 in accordance with BS EN ISO 17892 - 4 : 2016

Sieve Method, Clause 5.2 & Pipette Method, Clause 5.4

Hole Number: TP01 Top Depth (m): 1.00

Sample Number: Base Depth (m): 1.25

Sample Type: BB



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	96
6.3	94
3.35	92
2	91
1.18	89
0.63	85
0.3	50
0.2	44
0.15	38
0.063	34

Particle Diameter	Percentage Passing
0.020	30
0.0063	25
0.0020	17
Particle Density - 2.65 Mg/m3 assumed	

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	57
Silt	17
Clay	17

Remarks:

See Summary of Soil Descriptions



Bury Market, Bury

Contract No:
PSL24/9463
Client Ref:
5237

PARTICLE SIZE DISTRIBUTION TEST

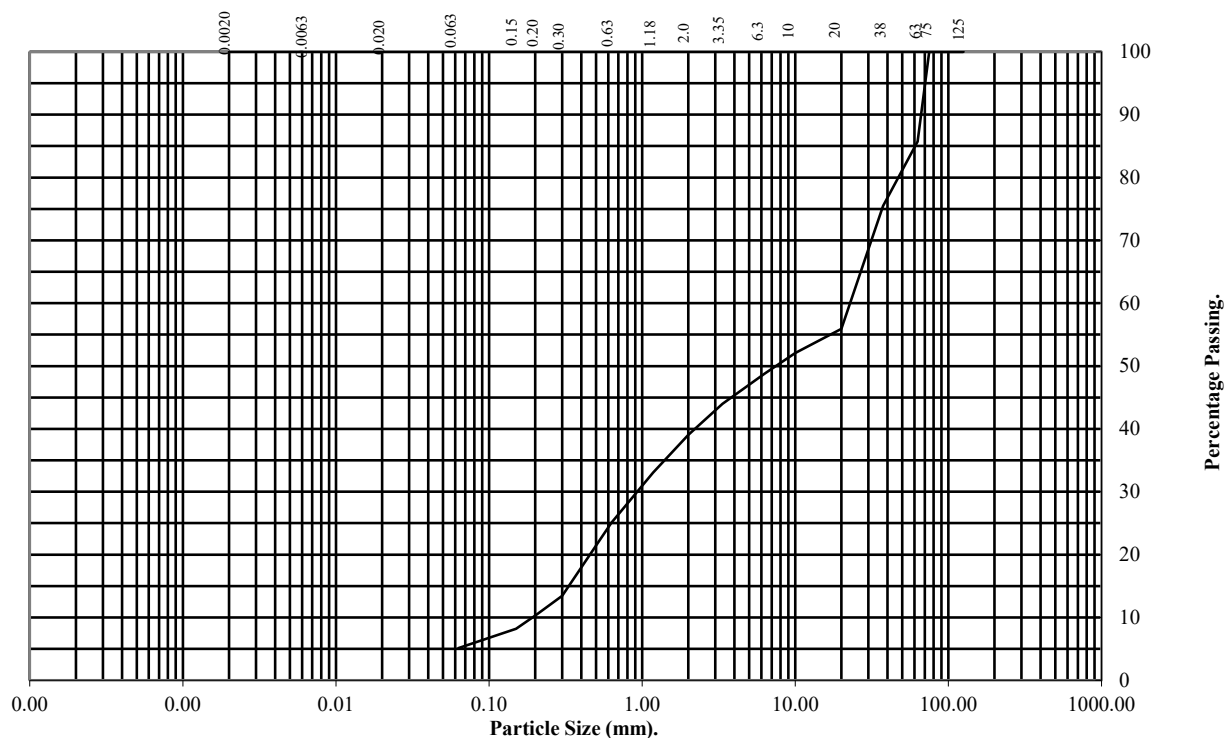
BS 1377 - Part 2 : 2022 : Clause 10 in accordance with BS EN ISO 17892 - 4 : 2016

Sieve Method, Clause 5.2

Hole Number: TP02 Top Depth (m): 2.00

Sample Number: Base Depth (m): 2.20

Sample Type: BB



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	86
37.5	75
20	56
10	52
6.3	49
3.35	44
2	39
1.18	33
0.63	25
0.3	13
0.2	10
0.15	8
0.063	5

Soil Fraction	Total Percentage
Cobbles	14
Gravel	47
Sand	34
Silt/Clay	5

Remarks:

See Summary of Soil Descriptions



Bury Market, Bury

Contract No:
PSL24/9463
Client Ref:
5237

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

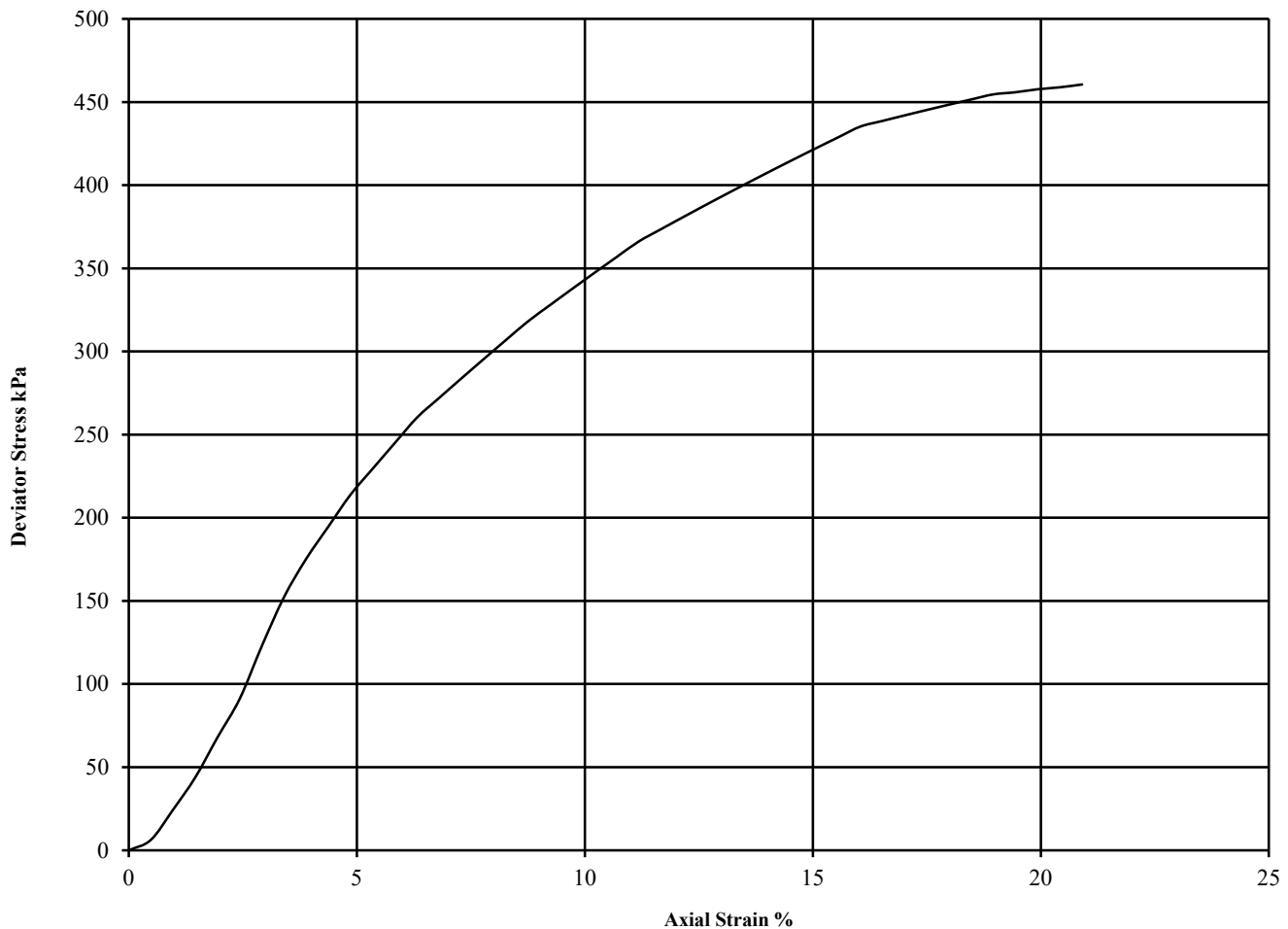
Hole Number: RBH02

Top Depth (m): 14.50

Sample Number

Base Depth (m): 14.97

Sample Type BB



Diameter (mm):		Height (mm):			175	Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions
1	19.7	2.19	1.83	290	462	231	20.9	Plastic	



Bury Market, Bury

Contract No:

PSL24/9463

Client Ref:

5237

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

BS 1377 - Part 2 : 2022 : Clause 28 in accordance with BS EN ISO 17892 - 8 : 2018

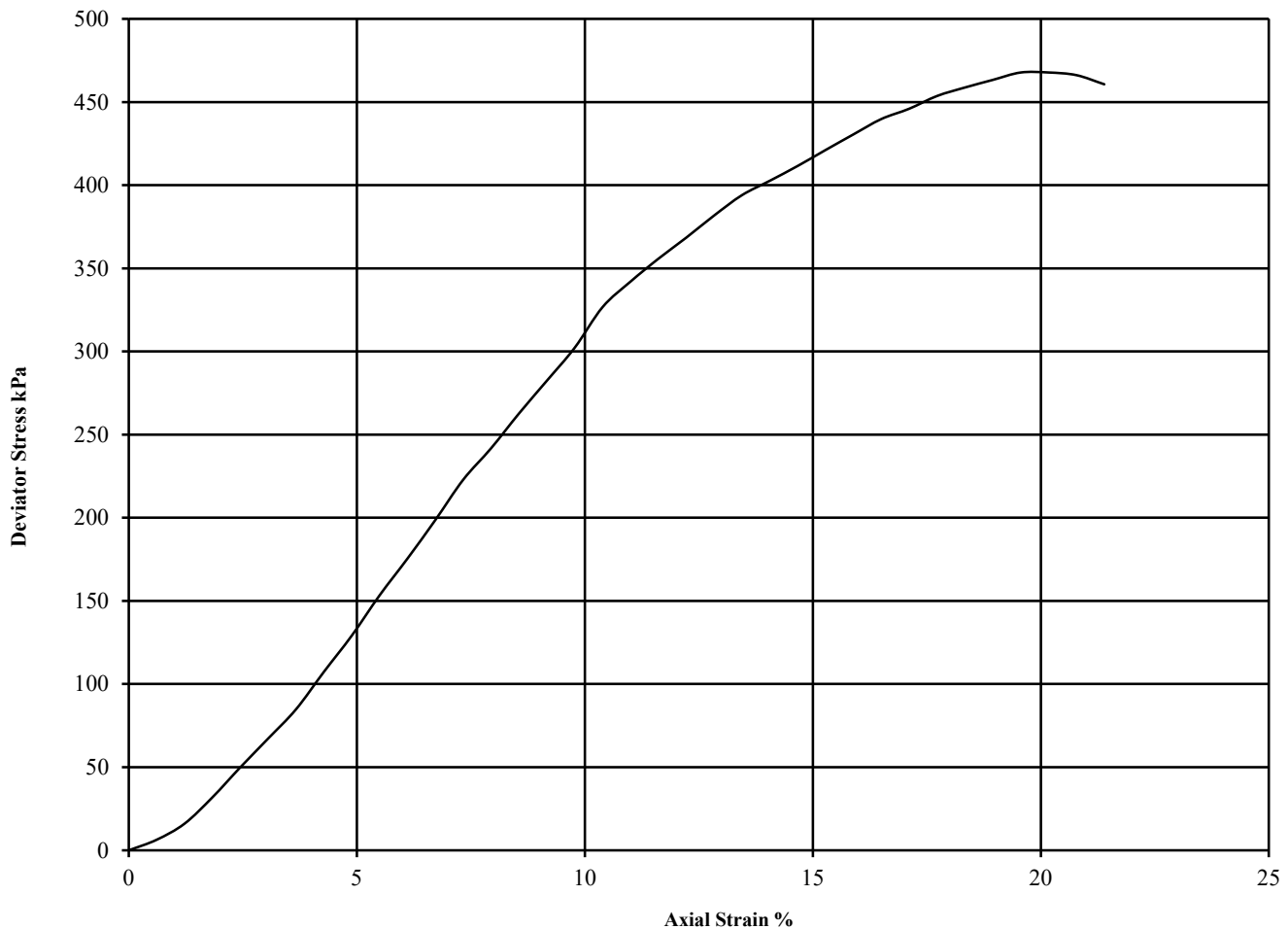
Hole Number: RBH01

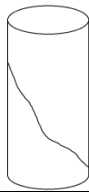
Top Depth (m): 13.00

Sample Number

Base Depth (m): 13.30

Sample Type U100



Diameter (mm):		102		Height (mm):		167	Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)			Undisturbed Sample Sample taken from top of tube Rate of strain = 1.1 %/min See summary of soil descriptions
1	19.7	2.17	1.81	260	468	234	19.6	Brittle		



Bury Market, Bury

Contract No:

PSL24/9463

Client Ref:

5237

SUMMARY OF POINT LOAD TEST RESULTS

ISRM Suggested Methods : 2007

Borehole Number	Depth (m)	Sample Ref	Test Type	Orientation Par / Perp	Dimensions (mm)		Area (mm ²)	D _c ²	D _c (mm)	Failure Load (P)		I _s (MPa)	Corr Fac F	I _{s50} (MPa)	Failure Type	Remarks
					W	D				(Mpa)	(kN)					
RBH01	23.00	-	I	Perp	43	63	2709	3449.21	58.73	-	1.14	0.33	1.075	0.36	Valid	
RBH01	23.40	-	I	Perp	46	51	2346	2987.02	54.65	-	4.24	1.42	1.041	1.48	Valid	
RBH01	23.50	-	I	Perp	43	66	2838	3613.45	60.11	-	11.87	3.28	1.086	3.57	Valid	
RBH01	23.92	-	A	Perp	85	43	3655	4653.69	68.22	-	1.22	0.26	1.150	0.30	Valid	
RBH01	24.00	-	A	Perp	84	39	3276	4171.13	64.58	-	1.56	0.37	1.122	0.42	Valid	
RBH02	22.86	-	A	Perp	84	50	4200	5347.61	73.13	-	0.22	0.04	1.187	0.05	Valid	
RBH02	23.40	-	A	Perp	84	41	3444	4385.04	66.22	-	4.49	1.02	1.135	1.16	Valid	
RBH02	22.75	-	A	Perp	84	49	4116	5240.65	72.39	-	0.80	0.15	1.181	0.18	Valid	
RBH02	16.63	-	A	Perp	84	37	3108	3957.23	62.91	-	0.15	0.04	1.109	0.04	Valid	
RBH02	17.04	-	A	Perp	80	35	2800	3565.07	59.71	-	0.82	0.23	1.083	0.25	Valid	
RBH02	17.35	-	I	Perp	39	55	2145	2731.10	52.26	-	3.98	1.46	1.020	1.49	Valid	
RBH02	18.20	-	A	Perp	85	34	2890	3679.66	60.66	-	0.31	0.08	1.091	0.09	Valid	
RBH02	18.70	-	A	Perp	84	53	4452	5668.46	75.29	-	0.65	0.11	1.202	0.14	Valid	
RBH02	16.53	-	A	Perp	84	49	4116	5240.65	72.39	-	0.14	0.03	1.181	0.03	Valid	
RBH02	18.29	-	A	Perp	82	56	4592	5846.72	76.46	-	2.74	0.47	1.211	0.57	Valid	
RBH02	20.75	-	A	Perp	81	28	2268	2887.71	53.74	-	0.47	0.16	1.033	0.17	Valid	
RBH02	21.60	-	A	Perp	84	50	4200	5347.61	73.13	-	4.72	0.88	1.187	1.05	Valid	
RBH02	21.90	-	A	Perp	85	44	3740	4761.92	69.01	-	2.39	0.50	1.156	0.58	Valid	
RBH02	21.00	-	A	Perp	82	41	3362	4280.63	65.43	-	0.86	0.20	1.129	0.23	Valid	
RBH02	21.25	-	A	Perp	84	35	2940	3743.32	61.18	-	0.49	0.13	1.095	0.14	Valid	

***Note** All testing carried out on samples at as received water content

Par = parallel, Perp = perpendicular, U = Random

A = Axial, D = Diametral, I = Irregular

		Bury Market, Bury	Contract No:
			PSL24/9463
			Client Ref:
			5237

SUMMARY OF POINT LOAD TEST RESULTS

ISRM Suggested Methods : 2007

[illegible]

***Note** All testing carried out on samples at as received water content

Par = parallel, Perp = perpendicular, U = Random



Bury Market, Bury

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Client Ref:

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UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number: RBH01 **Top Depth (m):** 23.00

Sample Number: - **Base Depth (m):** 23.20

Sample Type: C **Sample Date:** -

Storage Condition: Sealed in plastic **Date of Receipt** 20/12/2024

Sample Description: -

Specimen Details/Conditions	
Diameter - mm:	84.75
Height - mm:	138.71
Water Content - %:	4.2
Sample Mass - g:	1965.1
Bulk Density - Mg/m ³ :	2.51
Dry Density - Mg/m ³ :	2.41
Height Ratio:	* Sample does not comply with H:D ratio 1.6
Degree of Saturation - %:	59
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result	
Load Frame/Machine:	CM1/Controls
Date of test:	23/01/2025
Test Duration - mins:	00:09
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.51
Strain at Failure - kN:	25.70
Unconfined Compressive Strength - Mpa:	4.56
Mode of Failure:	Vertical Shear

Remarks: -



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UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number: RBH02 **Top Depth (m):** 17.21

Sample Number: - **Base Depth (m):** 17.32

Sample Type: C **Sample Date:** -

Storage Condition: Sealed in plastic **Date of Receipt** 20/12/2024

Sample Description: -

Specimen Details/Conditions	
Diameter - mm:	83.90
Height - mm:	135.17
Water Content - %:	5.0
Sample Mass - g:	1998.1
Bulk Density - Mg/m ³ :	2.67
Dry Density - Mg/m ³ :	2.55
Height Ratio:	* Sample does not comply with H:D ratio 1.6
Degree of Saturation - %:	104
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result	
Load Frame/Machine:	CM1/Controls
Date of test:	23/01/2025
Test Duration - mins:	00:24
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.78
Strain at Failure - kN:	103.90
Unconfined Compressive Strength - Mpa:	18.8
Mode of Failure:	Vertical Shear

Remarks: -



Bury Market, Bury

Contract No:
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Client Ref:
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UNIAXIAL COMPRESSIVE STRENGTH

ISRM Suggested Methods - Rock Characterization Testing and Monitoring 1974 - 2006

Borehole Number: RBH02 **Top Depth (m):** 23.00

Sample Number: - **Base Depth (m):** 23.20

Sample Type: C **Sample Date:** -

Storage Condition: Sealed in plastic **Date of Receipt** 20/12/2024

Sample Description: -

Specimen Details/Conditions	
Diameter - mm:	84.47
Height - mm:	154.70
Water Content - %:	3.9
Sample Mass - g:	2197.9
Bulk Density - Mg/m ³ :	2.54
Dry Density - Mg/m ³ :	2.44
Height Ratio: * Sample does not comply with H:D ratio	1.8
Degree of Saturation - %:	60
Assumed Specific Gravity for Degree of Saturation:	2.90

Test Result	
Load Frame/Machine:	CM1/Controls
Date of test:	23/01/2025
Test Duration - mins:	00:21
Orientation:	Perpendicular
Stress Rate - MPa/s:	0.88
Strain at Failure - kN:	103.70
Unconfined Compressive Strength - Mpa:	18.5
Mode of Failure:	Vertical Shear

Remarks: -



Bury Market, Bury

Contract No:
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Client Ref:
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Test Amendment Notice

Date:	26.01.25
PSL Contract Reference:	9663
Contract Title:	5237 Bury Market, Bury
Engineer/Client Details:	ID Geo - Ellen Smiths - Liam Murphy
Sample Details:	RBH01 @ 20.24.11 RBH02 @ 16.53-16.63 @ 21.0-21.15 @ 22.75-22.86 @ 18.29-18.42 @ 21.25-21.40
Testing required:	UCS

Details of Unsuitability

The above sample cannot be performed due to the following reasons:

- 1 The Sample has not been received
- 2 There is insufficient material for the required testing:

Sample Mass received (g)
Sample Mass required (g)
- 3 The sample has been previously tested
- 4 The sample has been misplaced in the laboratory
- 5 The sample is unsuitable for testing because: there is no intact material available in coreboxes due to fragmentation.

Please advise action required:

- 1 Perform the testing on the following sample:
- 2 Combine samples has follows for testing:
- 3 Perform the following alternative testing:
- 4 Perform a non standard test:
- 5 Take no further action
- 6 Undertake the following instructions:

Signed
(Please Print Name)
(Project Engineer)

Date

