

VISTRY SOUTH EAST

Linden House
Guards Avenue
Caterham
Surrey
CR3 5XL

Hannah Pontet
Via email: hannah.pontet@vistry.co.uk

25 April 2023

Subject: Burgess Hill Phase 2 stockpile testing assessment
Our ref: L-21949d-2.4.2-23-365-KRP

Dear Ms Pontet

Further to our fee proposal letter of 17 March, Idom Merebrook Ltd has completed sampling and analysis of 18 soil stockpiles to assess their potential for re-use as fill or for disposal as waste. For identification purposes, the location, numbering and volumes of the piles (referenced henceforth as Bunds 1-18) have been provided by Vistry as the Oak Surveys drawing attached to this letter. It is understood that the bunds comprise substantially natural soil arisings derived from the underlying Weald Clay Formation of the Wealden Group.

A representative of Idom Merebrook Ltd attended site on 22 March 2023 and collected soil samples for chemical and geotechnical analysis. On inspection, the bunds were noted to comprise either topsoil or natural clays.

Samples were despatched to UKAS/MCERS accredited chemical and geotechnical soil testing laboratories for the following testing regime:

- 18 samples (one from each bund) analysed for a broad screening suite of potential chemical contaminants. Laboratory test certificate 23-24916 is attached.
- Samples from the stockpiles were also bulked together to provide three samples that were submitted for a further suite of Waste Acceptance Criteria (WAC). Laboratory test certificate 23-24919 is attached.
- 30 samples analysed for Atterberg Limits (plasticity), 10 analysis of particle size distribution by wet sieving and five samples for assessment of Optimum Moisture Content/Maximum Dry Density relationship Laboratory test certificate 23-25301 is attached.
- Five samples analysed for BRE sulphate suite. Laboratory test certificate 23-25302 is attached.

Soil chemical contamination results

Of the 18 metals suite analysed:

- Total concentrations were at levels which could be considered as consistent with uncontaminated soil.
- No asbestos fibres were detected from laboratory microscope screening.

- pH levels were circumneutral and not indicative of contamination.
- Total organic carbon levels were in the range 0.3-3.6 %.
- Speciated petroleum hydrocarbons, phenols and BTEX compounds were undetected.
- USEPA Priority 16 Polyaromatic hydrocarbons (PAH) were undetected in 12 samples and detected at very low concentrations in six samples. Where detected concentrations were well within screening levels derived for a residential-with- gardens land use for individual compounds.
- Results from analysis of an inert landfill WAC suite found two of the three samples contained solid and leachable contamination levels within inert landfill thresholds. One sample from bund-14 slightly exceeded the inert landfill criteria of 3% for total organic carbon. It is noted from the main analysis suite that two of 18 samples contained TOC greater than 3%, these being 3.5 and 3.6%.

Soil geotechnical analysis results

The 30 Atterberg Limits analyses identified samples can be categorised as mostly clay with some clayey silt samples of medium and high plasticity, with plasticity indices indicative of low and medium volume change potential.

Sieve analyses were indicative of slightly sandy clay.

Optimum Moisture Contents (OMCs) were determined in the range of 15 to 22%. As received moisture contents were in the range of 15 to 37.3%. A small number of soils were at or near the OMCs determined from five samples with the majority indicated to be wetter than their OMCs.

Summary and Conclusions

Soil sampling has been undertaken from 18 soil bunds which were observed to comprise cohesive soils consistent with the natural weathered Weald Clay and overlying topsoil.

Chemical analysis has found very low levels of contamination. The contamination levels would be within screening values suitable for use within a residential development. A preliminary assessment of the category of materials if disposed of as waste, indicate soils would be non-hazardous (EWC 17 05 04). WAC tests indicate some material may exceed the total organic carbon threshold for inert licensed landfill facilities but overall levels would fall within inert landfill thresholds. The acceptance of the materials if disposed of would be entirely at the discretion of the waste carrier and receiving facility.

Where materials are intended for re-use as fill, they shall be treated in accordance with the requirements of the Remediation Method Statement and Earthworks Specification RMS&ES021949d-20-71, dated February 2021. It is anticipated that material would require conditioning to modify the moisture content to meet compaction criteria.

We trust the foregoing and attached results are of assistance, however, if you have any queries, please do not hesitate to contact us.

Subject: Burgess Hill Phase 2 stockpile testing assessment
Our ref: L-21949d-2.4.2-23-365-KRP
Page: 3/3

IDOM

Yours sincerely

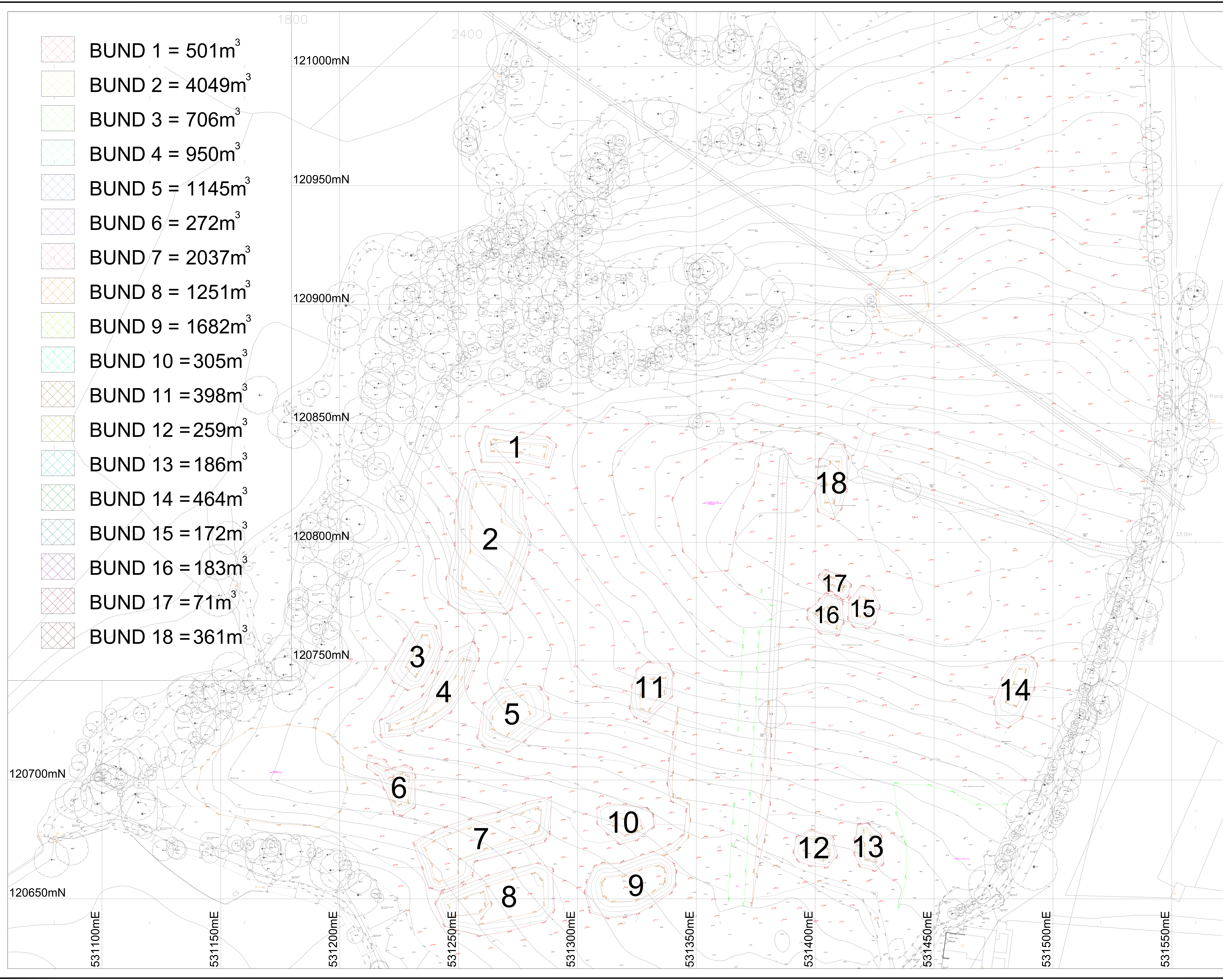
A handwritten signature in black ink, appearing to read 'Keith Paramor', with a stylized, cursive script.

Keith Paramor

Encs

Oak Surveys – Bund volume survey

Laboratory Certificates: 23-24916, 23-24919, 23-25301 & 23-25302



- BUND 1 = 501m³
- BUND 2 = 4049m³
- BUND 3 = 706m³
- BUND 4 = 950m³
- BUND 5 = 1145m³
- BUND 6 = 272m³
- BUND 7 = 2037m³
- BUND 8 = 1251m³
- BUND 9 = 1682m³
- BUND 10 = 305m³
- BUND 11 = 398m³
- BUND 12 = 259m³
- BUND 13 = 186m³
- BUND 14 = 464m³
- BUND 15 = 172m³
- BUND 16 = 183m³
- BUND 17 = 71m³
- BUND 18 = 361m³

LEGEND

CATV	CABLE TELEVISION COVER	BD	BACK DROP
ELC	ELECTRIC INSPECTION COVER	BL	BASE/RED LEVEL
ELB	ELECTRIC JUNCTION BOX	CL	COVER LEVEL
EP	ELECTRICITY POLE	CP	CATCH PIT
ER	EARTHING ROD	DC	DRAINAGE CHANNEL
FI	FIRE HYDRANT	DP	DOWN PIPE
GJB	GAS JUNCTION BOX	G	GULLY
GV	GAS VIEW	IC	INSPECTION COVER
JB	JUNCTION BOX	IL	INVERT LEVEL
MKE	MANHOLE (ELECTRIC)	M(C)	MANHOLE (COMBINED)
M(KS)	SERVICE MARKER (KAS)	M(V)	MANHOLE (VOLT)
M(W)	SERVICE MARKER (WATER)	M(S)	MANHOLE (SURFACE WATER)
OW	OVERHEAD WIRE	RE	ROCKING EYE
SCG	STOP COCK (GAS)	RWP	RAIN WATER PIPE
SCW	STOP COCK (W)	SEG	SIDE ENTRY GULLY
STAY	SUPPORT FOR TELEPHONE POLE	SVP	SOIL VENT PIPE
SV	STOP VALVE	UTL	UNABLE TO LIFT
BT	TELEPHONE INSPECTION COVER	VPI	VENT PIPE
TJB	TELEPHONE JUNCTION BOX	WO	WASH OUT
TP	TELEPHONE POLE	W	WALL
WIC	WATER INSPECTION COVER	BH	BORER HOLE
WM	WATER METER	BP	BRICK PILLAR
DPC	DAMP PROOF COURSE	BS	BUS STOP
TH	THRESHOLD LEVEL	CPS	CONCRETE PAVING SLABS
T.O.W	TOP OF WALL	FB	FLOWER BED
WL	WATER LEVEL	LB	LITTER BIN
CLG	CEILING LEVEL	LC	LIGHTING COLUMN
FL	FLOOR LEVEL	P	POST
SCG	SUSPENDED CEILING LEVEL	RNP	ROAD NAME PLATE
US	UNDERBONE	RS	ROAD SIGN
UB	UNDERBONE OF BEAM	RW	RETAINING WALL
WCL	WINDOW CILL LEVEL	SP	SIGN POST
WHL	WINDOW HEAD LEVEL	SU	STEPS/UP
		TCB	TELEPHONE CALL BOX
		TS	TREE STUMP

OSBM ORDNANCE SURVEY BENCH MARK

STM SURVEY STATION

TBM TEMPORARY BENCH MARK

Species

Tree

Trunk

Canopy

Height

SURVEY STATION

FENCE	GATE - GATES	TOP OF BANK
BUILDING		BOTTOM OF BANK
OVER HEAD BUILDING LINE		KERB
FACE OF WALL		DROP KERB
CHANGE OF SURFACE		CONTOUR WITH VALVE
EDGE OF UNDERGROWTH		OVER HEAD CABLE
TREE LINE/HEDGE ROOT LINE		FOOTPATH LINE

ALL LEVELS AND CO-ORDINATES ARE RELATED TO THE ORDNANCE SURVEY NATIONAL GRID

OSBMS, UNLESS OTHERWISE NOTED

CONTOUR INTERVALS SET AT 1.0M WHERE APPLICABLE

TREE SPECIES AND DETAILS ARE QUOTED AS A MEAN SIZE AND SHOWN TO SCALE. HOWEVER NO RESPONSIBILITY CAN BE TAKEN FOR WRONG SPECIES IDENTIFICATIONS.

ANY INVERT LEVEL INFORMATION SHOWN HAVE BEEN MEASURED FROM ABOVE GROUND. LEVELS MAY BE SUBJECT TO CHANGE. ANY PIPE FLOW DIRECTIONS AND LATERALS ARE INDICATIVE POSITION ONLY.

IT IS RECOMMENDED THAT FOR ANY WORKS INVOLVING DRAINAGE, THAT ADDITIONAL CHECKS ARE CARRIED OUT BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION COMMENCING.

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OAK SURVEYS LTD

OAK SURVEYS LIMITED
1 The Orchids
Mersham
Kent, TN25 6PQ
Tel: 07792572772

Site
**BURGESS HILL
PHASES 2 & 3**

Drawing
LEVEL SURVEY

Drawn by	C.H.	Date	07/03/2023	Drawing No.	Oak_23-061
Scale	1/500 @ A0	Revision			

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e: reception@i2analytical.com

Analytical Report Number : 23-24916

Project / Site name:	Freeks Road, Burgess Hill - Phase 2	Samples received on:	24/03/2023
Your job number:	21949D	Samples instructed on/ Analysis started on:	24/03/2023
Your order number:	23-2-FDO-LABS	Analysis completed by:	03/04/2023
Report Issue Number:	1	Report issued on:	03/04/2023
Samples Analysed:	18 soil samples		

Signed:

Joanna Wawrzeczko
Joanna Wawrzeczko
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629236	2629237	2629238	2629239	2629240
Sample Reference				Bund 1-ES	Bund 2-ES	Bund 3-ES	Bund 4-ES	Bund 5-ES
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	25	25	19	20
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JBH	JBH	JBH	JBH	JBH

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.9	7.6	5.6	6.3	6.1
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0036	0.067	0.01	0.0026	0.002
Organic Matter (automated)	%	0.1	MCERTS	2.5	1	3.8	2.7	0.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.4	0.6	2.2	1.6	0.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.08	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.13	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.6	12	8.9	7.9	9.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	66	59	55	56	48
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	20	34	26	20	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	34	26	20	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	23	15	13	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	21	33	23	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	16	15	11	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32	44	35	27	37
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	51	50	48	40

Analytical Report Number: 23-24916
Project / Site name: Freeks Road, Burgess Hill - Phase 2
Your Order No: 23-2-FDO-LABS

Lab Sample Number	2629236	2629237	2629238	2629239	2629240
Sample Reference	Bund 1-ES	Bund 2-ES	Bund 3-ES	Bund 4-ES	Bund 5-ES
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH CU 1D AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH CU 1D AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40 EH CU 1D AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35) EH CU+HS 1D AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH CU 1D AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH CU 1D AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC40 EH CU 1D AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH CU+HS 1D AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40 EH CU+HS 1D TOTAL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629241	2629242	2629243	2629244	2629245
Sample Reference				Bund 6-ES	Bund 7-ES	Bund 8-ES	Bund 9-ES	Bund 10-ES
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	18	20	16	18
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JBH	JBH	JBH	JBH	JBH

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.7	8.2	8.2	8.7	7.4
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.012	0.083	0.04	0.11	0.023
Organic Matter (automated)	%	0.1	MCERTS	3.8	1	2.5	1.4	3.7
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.2	0.6	1.5	0.8	2.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.24	0.13	0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.39	0.27	0.1	0.07
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.35	0.25	0.1	0.07
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.18	0.15	0.07	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.19	0.17	0.07	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.24	0.24	0.09	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.11	0.11	0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.19	0.19	0.07	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.12	0.12	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.14	0.14	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	2.15	1.77	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.5	11	13	9.5	8.3
Barium (aqua regia extractable)	mg/kg	1	MCERTS	59	120	120	95	44
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.5	0.3	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	24	26	27	27	18
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	26	27	27	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	29	36	35	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	28	46	29	33
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	17	17	25	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32	38	38	33	29
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	55	82	110	76	70

Analytical Report Number: 23-24916
 Project / Site name: Freeks Road, Burgess Hill - Phase 2
 Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629241	2629242	2629243	2629244	2629245
Sample Reference				Bund 6-ES	Bund 7-ES	Bund 8-ES	Bund 9-ES	Bund 10-ES
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH CU 1D AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH CU 1D AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40 EH CU 1D AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35) EH CU+HS 1D AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH CU 1D AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH CU 1D AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC40 EH CU 1D AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH CU+HS 1D AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40 EH CU+HS 1D TOTAL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629246	2629247	2629248	2629249	2629250
Sample Reference				Bund 11-ES	Bund 12-ES	Bund 13-ES	Bund 14-ES	Bund 15-ES
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	15	17	24	18
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JBH	JBH	JBH	JBH	JBH

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	8.9	6.9	7.7	6.7
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.011	0.22	0.027	0.01	0.059
Organic Matter (automated)	%	0.1	MCERTS	3.7	2.2	2.5	6.2	0.5
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.1	1.3	1.4	3.6	0.3

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.06	0.11	0.57	0.12	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.12	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.11	0.15	0.95	0.27	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.1	0.12	0.87	0.25	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.06	0.07	0.37	0.13	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.07	0.07	0.43	0.18	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.39	0.2	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.14	0.09	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.31	0.17	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.15	0.1	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.19	0.11	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	4.49	1.62	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.8	9.4	11	9.1	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	57	55	44	64	63
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.4	< 0.2	0.4	0.6
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	21	22	20	19	29
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	23	22	19	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	19	18	27	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	41	26	29	61	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	12	11	10	35
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	29	31	28	38
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	57	72	73	180	77

Analytical Report Number: 23-24916
 Project / Site name: Freeks Road, Burgess Hill - Phase 2
 Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629246	2629247	2629248	2629249	2629250
Sample Reference				Bund 11-ES	Bund 12-ES	Bund 13-ES	Bund 14-ES	Bund 15-ES
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS, 1D, AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 _{HS, 1D, AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 _{HS, 1D, AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 _{EH, CU, 1D, AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 _{EH, CU, 1D, AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 _{EH, CU, 1D, AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40 _{EH, CU, 1D, AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35) _{EH, CU+HS, 1D, AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 _{HS, 1D, AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS, 1D, AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS, 1D, AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 _{EH, CU, 1D, AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 _{EH, CU, 1D, AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 _{EH, CU, 1D, AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 _{EH, CU, 1D, AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC40 _{EH, CU, 1D, AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) _{EH, CU+HS, 1D, AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH Total C5 - C40 _{EH, CU+HS, 1D, TOTAL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-24916
Project / Site name: Freeks Road, Burgess Hill - Phase 2
Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629251	2629252	2629253
Sample Reference				Bund 16-ES	Bund 17-ES	Bund 18-ES
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	26	22
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JBH	JBH	JBH

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.6	7.3
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.14	0.035	0.034
Organic Matter (automated)	%	0.1	MCERTS	2.5	3.9	6
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.4	2.3	3.5

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.11	0.14	0.51
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09
Fluoranthene	mg/kg	0.05	MCERTS	0.17	0.17	0.7
Pyrene	mg/kg	0.05	MCERTS	0.14	0.15	0.64
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.07	0.07	0.29
Chrysene	mg/kg	0.05	MCERTS	0.07	0.09	0.32
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.09	0.1	0.32
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.05	0.06	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.08	0.09	0.27
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.13
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	0.87	3.54
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	10	7.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	73	63	52
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	27	24	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	25	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	18	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	33	34	38
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	13	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	40	37	33
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	68	65	79

Analytical Report Number: 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Your Order No: 23-2-FDO-LABS

Lab Sample Number				2629251	2629252	2629253
Sample Reference				Bund 16-ES	Bund 17-ES	Bund 18-ES
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Monoaromatics & Oxygenates						
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH CU 1D AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH CU 1D AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40 EH CU 1D AL	mg/kg	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC35) EH CU+HS 1D AL	mg/kg	10	NONE	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH CU 1D AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH CU 1D AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH CU 1D AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC35 - EC40 EH CU 1D AR	mg/kg	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH CU+HS 1D AR	mg/kg	10	NONE	< 10	< 10	< 10
TPH Total C5 - C40 EH CU+HS 1D TOTAL	mg/kg	10	NONE	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2629236	Bund 1-ES	None Supplied	None Supplied	Light brown clay and loam with vegetation.
2629237	Bund 2-ES	None Supplied	None Supplied	Light brown clay.
2629238	Bund 3-ES	None Supplied	None Supplied	Light brown clay and loam with vegetation.
2629239	Bund 4-ES	None Supplied	None Supplied	Light brown clay with gravel.
2629240	Bund 5-ES	None Supplied	None Supplied	Brown clay and loam with vegetation.
2629241	Bund 6-ES	None Supplied	None Supplied	Brown clay and loam with vegetation.
2629242	Bund 7-ES	None Supplied	None Supplied	Light brown clay with vegetation.
2629243	Bund 8-ES	None Supplied	None Supplied	Light brown clay with vegetation and gravel.
2629244	Bund 9-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629245	Bund 10-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629246	Bund 11-ES	None Supplied	None Supplied	Brown loam with gravel and vegetation.
2629247	Bund 12-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629248	Bund 13-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629249	Bund 14-ES	None Supplied	None Supplied	Brown loam with gravel and vegetation.
2629250	Bund 15-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629251	Bund 16-ES	None Supplied	None Supplied	Brown clay with gravel.
2629252	Bund 17-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629253	Bund 18-ES	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L0738-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC

Analytical Report Number : 23-24916

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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Analytical Report Number : 23-24919

Project / Site name:	Freeks Road, Burgess Hill - Phase 2	Samples received on:	24/03/2023
Your job number:	21949D	Samples instructed on/ Analysis started on:	24/03/2023
Your order number:	23-2-FDO-LABS	Analysis completed by:	31/03/2023
Report Issue Number:	1	Report issued on:	31/03/2023
Samples Analysed:	3 10:1 WAC samples		

Signed:

Izabela Wójcik
Izabela Wójcik
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



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Environmental Science

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Waste Acceptance Criteria Analytical Results							
Report No:	23-24919						
				Client: MEREbrook			
Location	Freeks Road, Burgess Hill - Phase 2						
Lab Reference (Sample Number)	2629257 / 2629258			Landfill Waste Acceptance Criteria			
				Limits			
Sampling Date	22/03/2023			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	Bund 7-ES						
Depth (m)							
Solid Waste Analysis							
TOC (%)**	0.6			3%	5%	6%	
Loss on Ignition (%) **	3.0			--	--	10%	
BTEX (µg/kg) **	< 5.0			6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	2.25			100	--	--	
pH (units)**	7.9			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	4.7			--	To be evaluated	To be evaluated	
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
				using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
	mg/l			mg/kg			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25
Barium *	0.0052			0.0411	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0011			0.0088	0.5	10	70
Copper *	0.0099			0.078	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0007			0.0055	0.5	10	30
Nickel *	0.0008			0.0062	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0073			0.057	4	50	200
Chloride *	1.9			15	800	15000	25000
Fluoride*	0.24			1.9	10	150	500
Sulphate *	8.1			64	1000	20000	50000
TDS*	60			470	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	8.94			70.2	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.50						
Dry Matter (%)	82						
Moisture (%)	18						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = UKAS accredited (liquid eluate analysis only)			
				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



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Waste Acceptance Criteria Analytical Results							
Report No:	23-24919						
					Client: MEREbrook		
Location	Freeks Road, Burgess Hill - Phase 2						
Lab Reference (Sample Number)	2629259 / 2629260				Landfill Waste Acceptance Criteria		
					Limits		
Sampling Date	22/03/2023				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	Bund 12-ES						
Depth (m)							
Solid Waste Analysis							
TOC (%)**	1.3				3%	5%	6%
Loss on Ignition (%) **	4.0				--	--	10%
BTEX (µg/kg) **	< 5.0				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	6.5				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0014			0.0114	0.5	2	25
Barium *	0.0042			0.0338	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	< 0.0004			< 0.0040	0.5	10	70
Copper *	0.015			0.12	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0006			0.0051	0.5	10	30
Nickel *	0.0008			0.0068	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0066			0.053	4	50	200
Chloride *	0.42			3.4	800	15000	25000
Fluoride*	0.20			1.6	10	150	500
Sulphate *	7.9			64	1000	20000	50000
TDS*	51			420	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	11.8			96.3	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.50						
Dry Matter (%)	85						
Moisture (%)	15						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.



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Waste Acceptance Criteria Analytical Results							
Report No:	23-24919						
				Client: MEREbrook			
Location	Freeks Road, Burgess Hill - Phase 2						
Lab Reference (Sample Number)	2629261 / 2629262			Landfill Waste Acceptance Criteria			
				Limits			
Sampling Date	22/03/2023			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	Bund 14-ES						
Depth (m)							
Solid Waste Analysis							
TOC (%)**	3.6				3%	5%	6%
Loss on Ignition (%) **	8.4				--	--	10%
BTEX (µg/kg) **	< 5.0				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	1.60				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	4.6				--	To be evaluated	To be evaluated
Eluate Analysis							
	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0017			0.0120	0.5	2	25
Barium *	0.0038			0.0267	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0009			0.0061	0.5	10	70
Copper *	0.013			0.095	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0018			0.0124	0.5	10	30
Nickel *	0.0014			0.010	0.4	10	40
Lead *	0.0012			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.013			0.088	4	50	200
Chloride *	1.3			8.8	800	15000	25000
Fluoride*	0.096			0.67	10	150	500
Sulphate *	1.4			9.5	1000	20000	50000
TDS*	36			260	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	13.4			94.6	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.50						
Dry Matter (%)	76						
Moisture (%)	24						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = UKAS accredited (liquid eluate analysis only)			
				** = MCFRTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 23-24919

Project / Site name: Freeks Road, Burgess Hill - Phase 2

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2629257	Bund 7-ES	None Supplied	None Supplied	Light brown clay with vegetation.
2629259	Bund 12-ES	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
2629261	Bund 14-ES	None Supplied	None Supplied	Brown loam with gravel and vegetation.

Analytical Report Number : 23-24919

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270.	L064-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031	W	ISO 17025

Analytical Report Number : 23-24919

Project / Site name: Freeks Road, Burgess Hill - Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Charlie Oliveira

Merebrook
Cromford Mills
Mill Lane
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Derbyshire
DE4 3RQ

e: coliveira@idom.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

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e: reception@i2analytical.com

Analytical Report Number : 23-25302

Project / Site name:	Freeks Road Burgess Hill Phase 2	Samples received on:	24/03/2023
Your job number:	21949D	Samples instructed on/ Analysis started on:	24/03/2023
Your order number:	23 2 FDO LABS	Analysis completed by:	05/04/2023
Report Issue Number:	1	Report issued on:	11/04/2023
Samples Analysed:	5 soil samples		

Izabela Wójcik
Signed:

Izabela Wójcik
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-25302

Project / Site name: Freeks Road Burgess Hill Phase 2

Your Order No: 23 2 FDO LABS

Lab Sample Number				2631560	2631561	2631562	2631563	2631564
Sample Reference				Bund 1_B	Bund 7_B	Bund 11_B	Bund 12_B	Bund 18_B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				22/03/2023	22/03/2023	22/03/2023	22/03/2023	22/03/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	21	20	22	24
Total mass of sample received	kg	0.001	NONE	0.6	0.6	0.6	0.6	0.6

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	8	7.1	7.9	5.9
Total Sulphate as SO ₄	%	0.005	MCERTS	0.043	0.057	0.038	0.038	0.065
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	0.22	0.051	0.18	0.029
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	181	223	51.4	181	29.1
Total Sulphur	%	0.005	MCERTS	0.03	0.031	0.032	0.053	0.044

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-25302

Project / Site name: Freeks Road Burgess Hill Phase 2

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2631560	Bund 1_B	None Supplied	None Supplied	Brown clay and sand with gravel.
2631561	Bund 7_B	None Supplied	None Supplied	Brown clay.
2631562	Bund 11_B	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation.
2631563	Bund 12_B	None Supplied	None Supplied	Light brown clay and sand.
2631564	Bund 18_B	None Supplied	None Supplied	Brown clay and loam with gravel and vegetation.

Analytical Report Number : 23-25302

Project / Site name: Freeks Road Burgess Hill Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

4041

Client: Merebrook
 Client Address: Cromford Mills, Mill Lane,
 Cromford, Derbyshire,
 DE4 3RQ
 Contact: Matthew Baylis
 Site Address: Freeks Road Burgess Hill Phase 2

Client Reference: 21949D
 Job Number: 23-25301-1
 Date Sampled: 22/03/2023
 Date Received: 24/03/2023
 Date Tested: 03/04/2023
 Sampled By: Client - Matthew Baylis

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

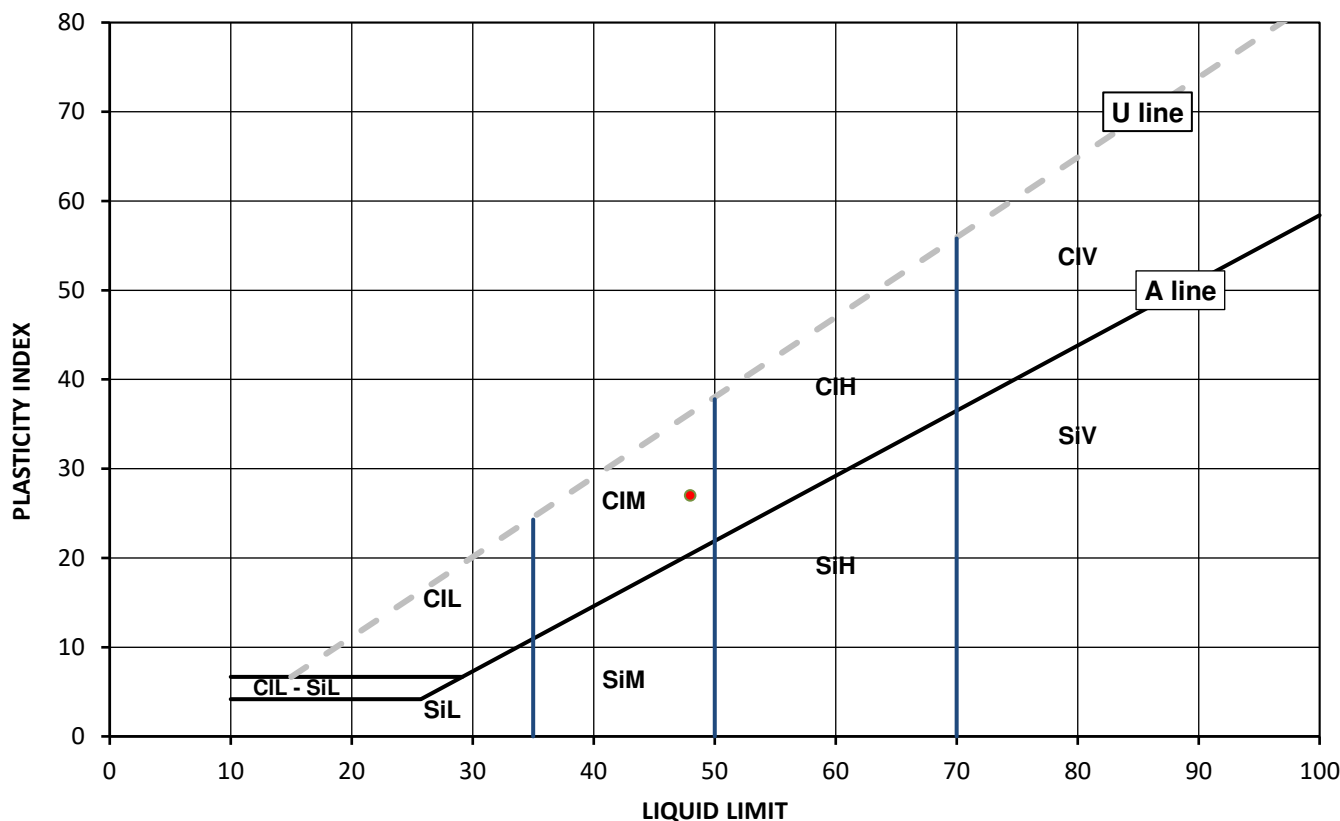
Test Results:

Laboratory Reference: 2631518
 Hole No.: Bund 1_Db
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly slightly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23.8	48	1.022	21	27	98



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

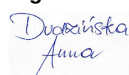
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Remarks:

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 PL Deputy Head of Reporting Team
 for and on behalf of i2 Analytical Ltd

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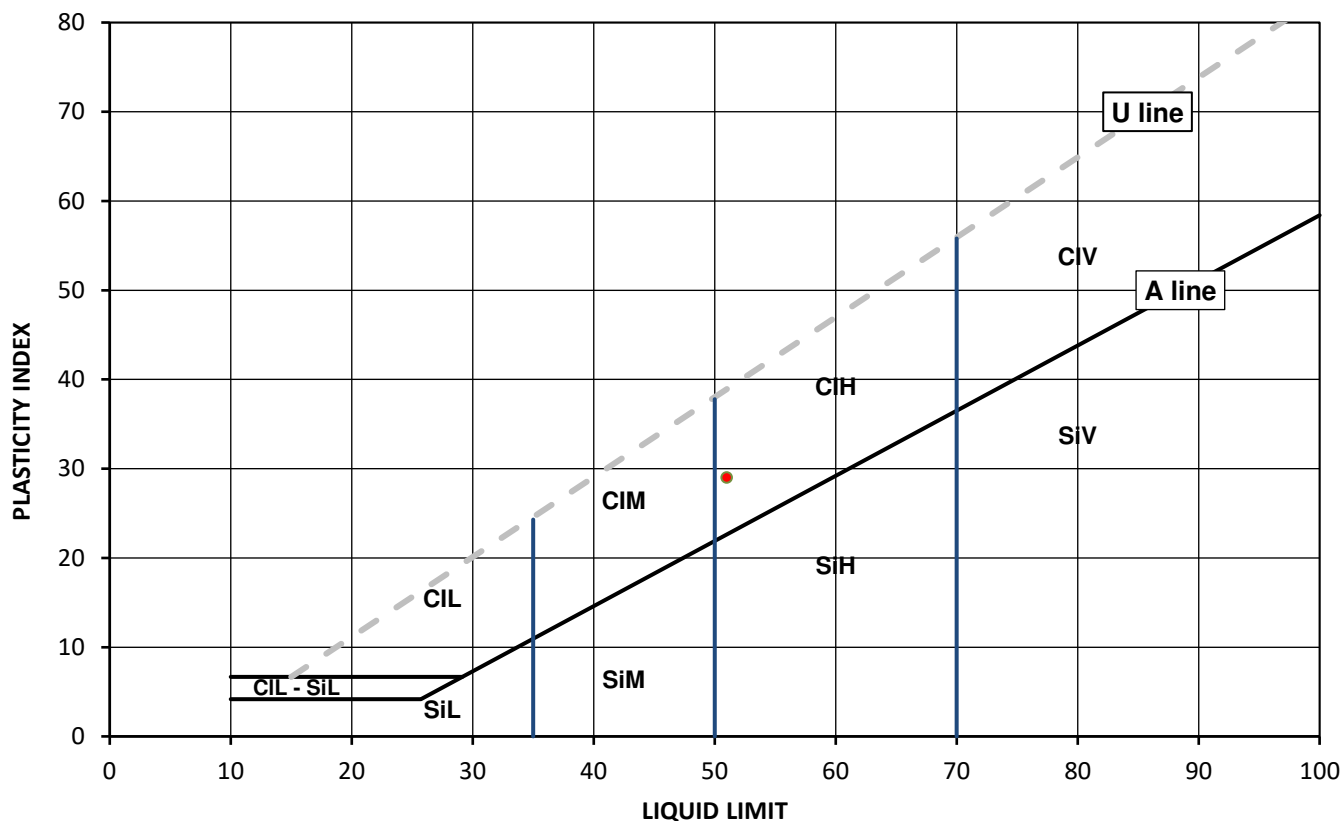
Test Results:

Laboratory Reference: 2631519
 Hole No.: Bund 2_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
27.1	51	1.039	22	29	97



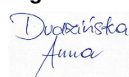
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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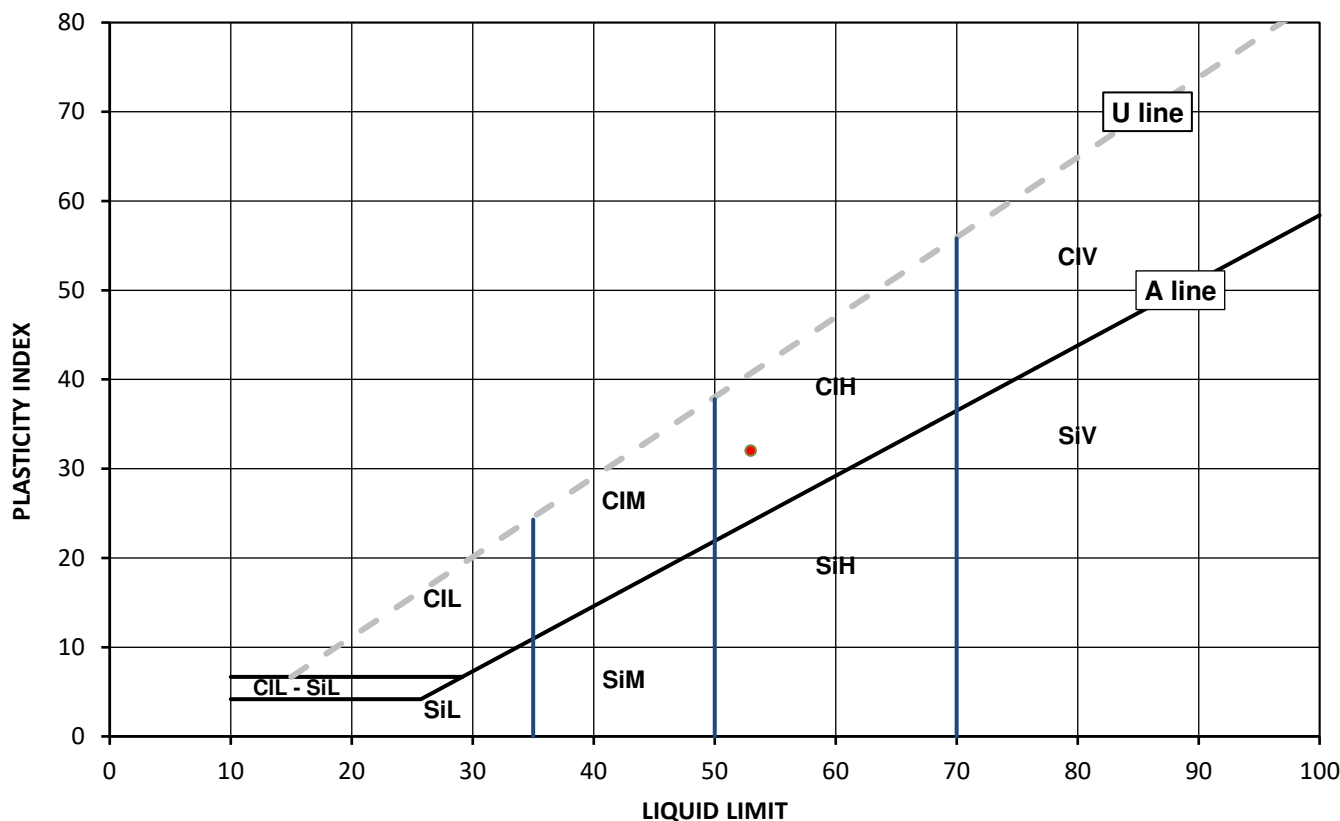
Test Results:

Laboratory Reference: 2631520
 Hole No.: Bund 2_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly sandy CLAY

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

Sample Preparation: Tested in natural condition;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25.3	53	1.058	21	32	100



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

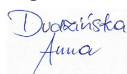
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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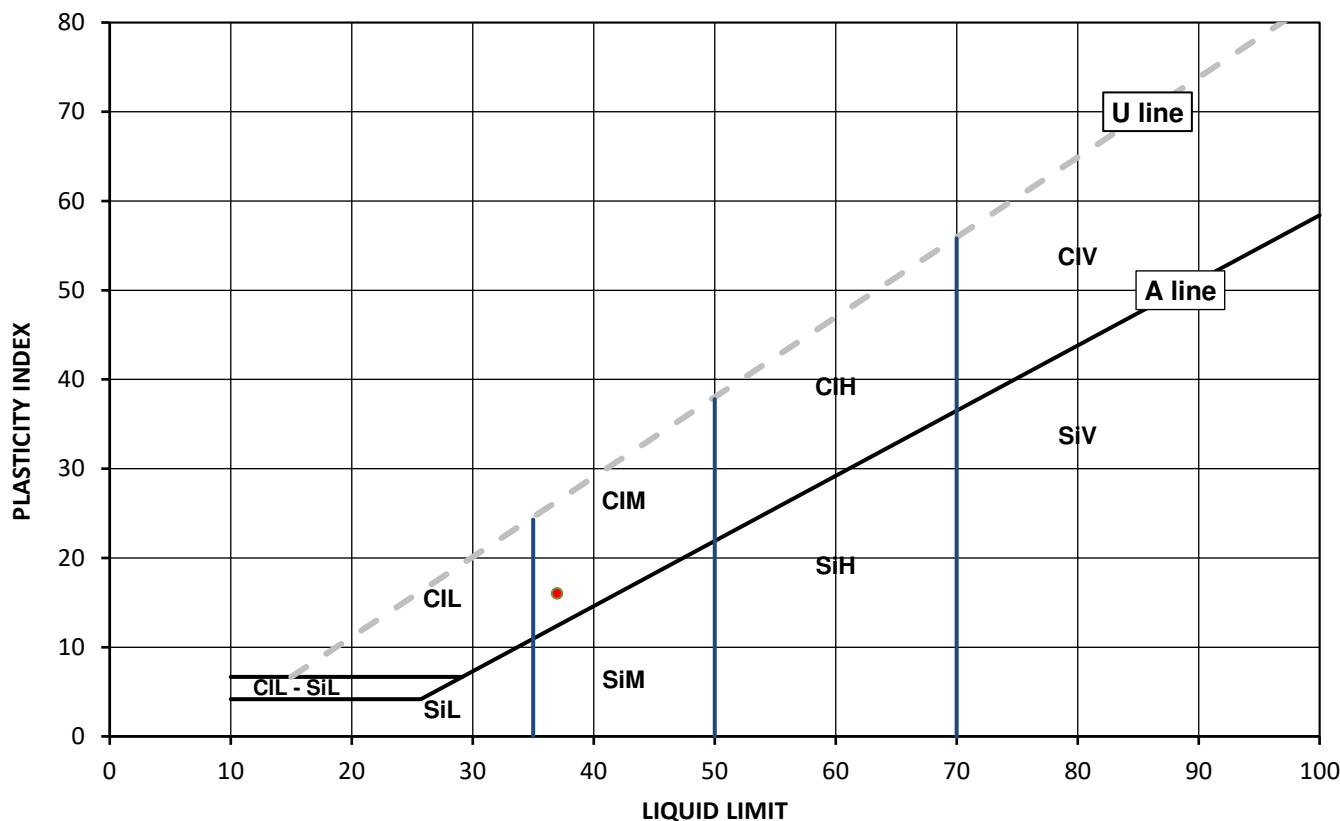
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2631521
 Hole No.: Bund 3_Da
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly sandy CLAY
 Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

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

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.8	37	1.000	21	16	96



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

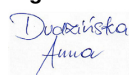
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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 Sampled By: Client - Matthew Baylis

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

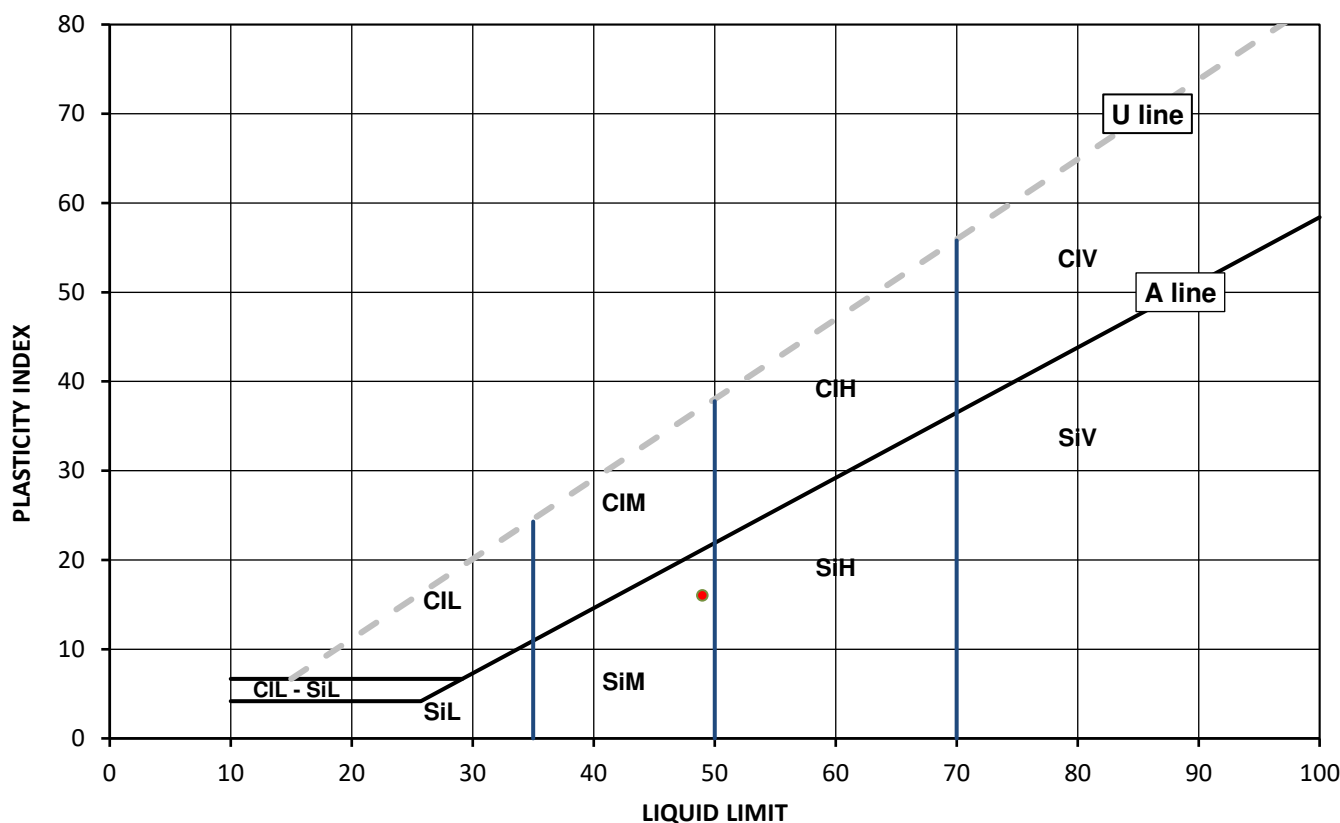
Test Results:

Laboratory Reference: 2631522
 Hole No.: Bund 3_Db
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy clayey SILT with fragments of roots

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

Sample Preparation: Tested after washing to remove >0.425mm;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
37.3	49	0.949	33	16	92



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

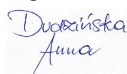
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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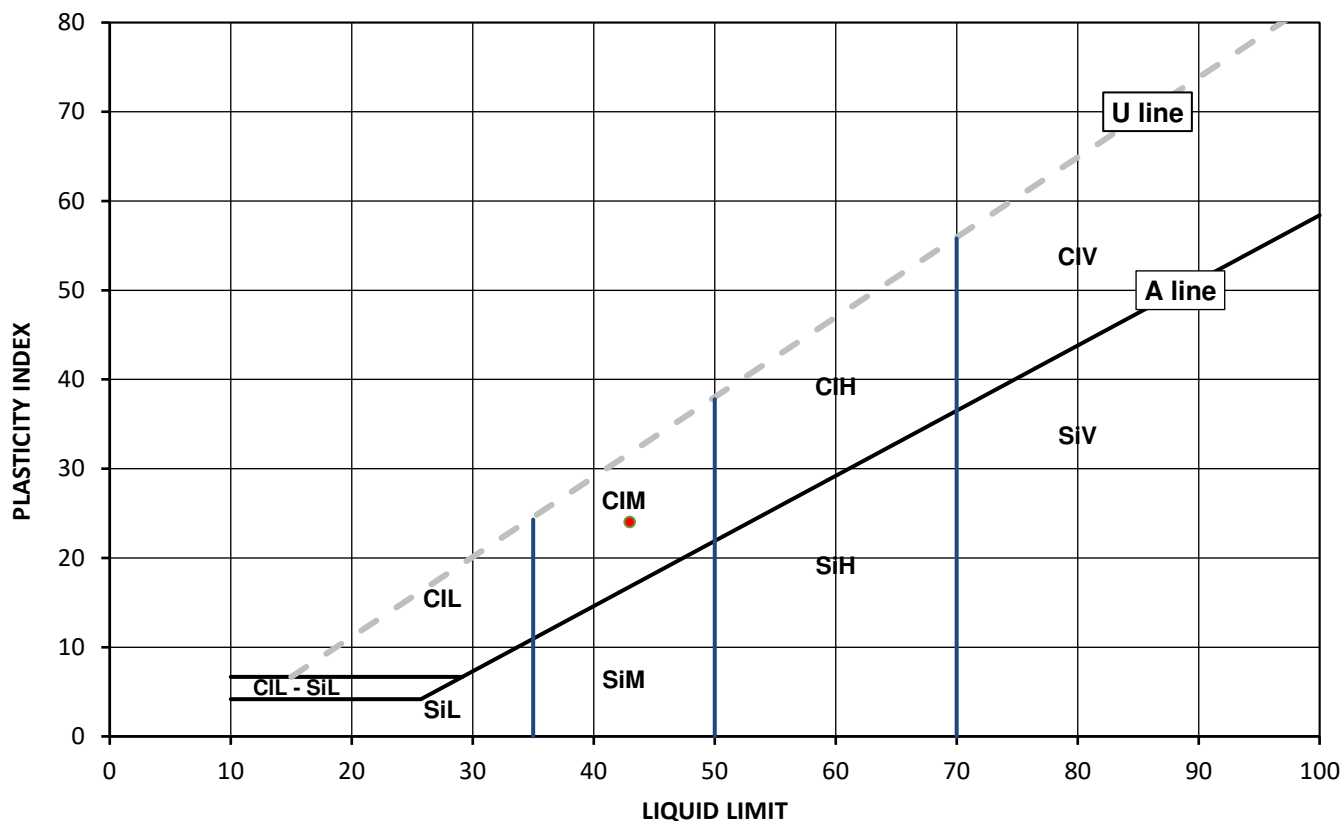
Test Results:

Laboratory Reference: 2631523
 Hole No.: Bund 4_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25.1	43	0.984	19	24	98



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

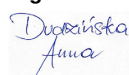
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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 Sampled By: Client - Matthew Baylis

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

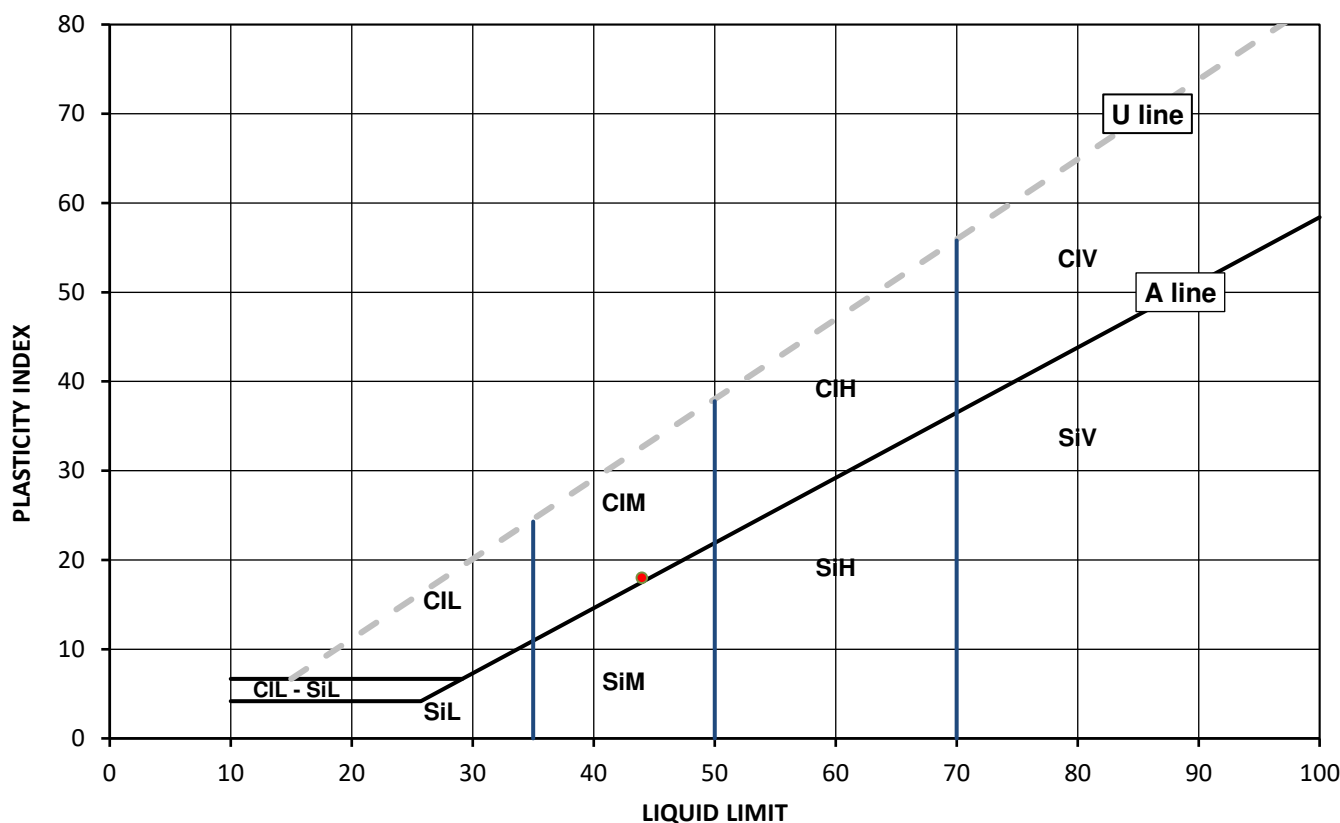
Test Results:

Laboratory Reference: 2631524
 Hole No.: Bund 5_Da
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
31.7	44	0.984	26	18	98



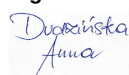
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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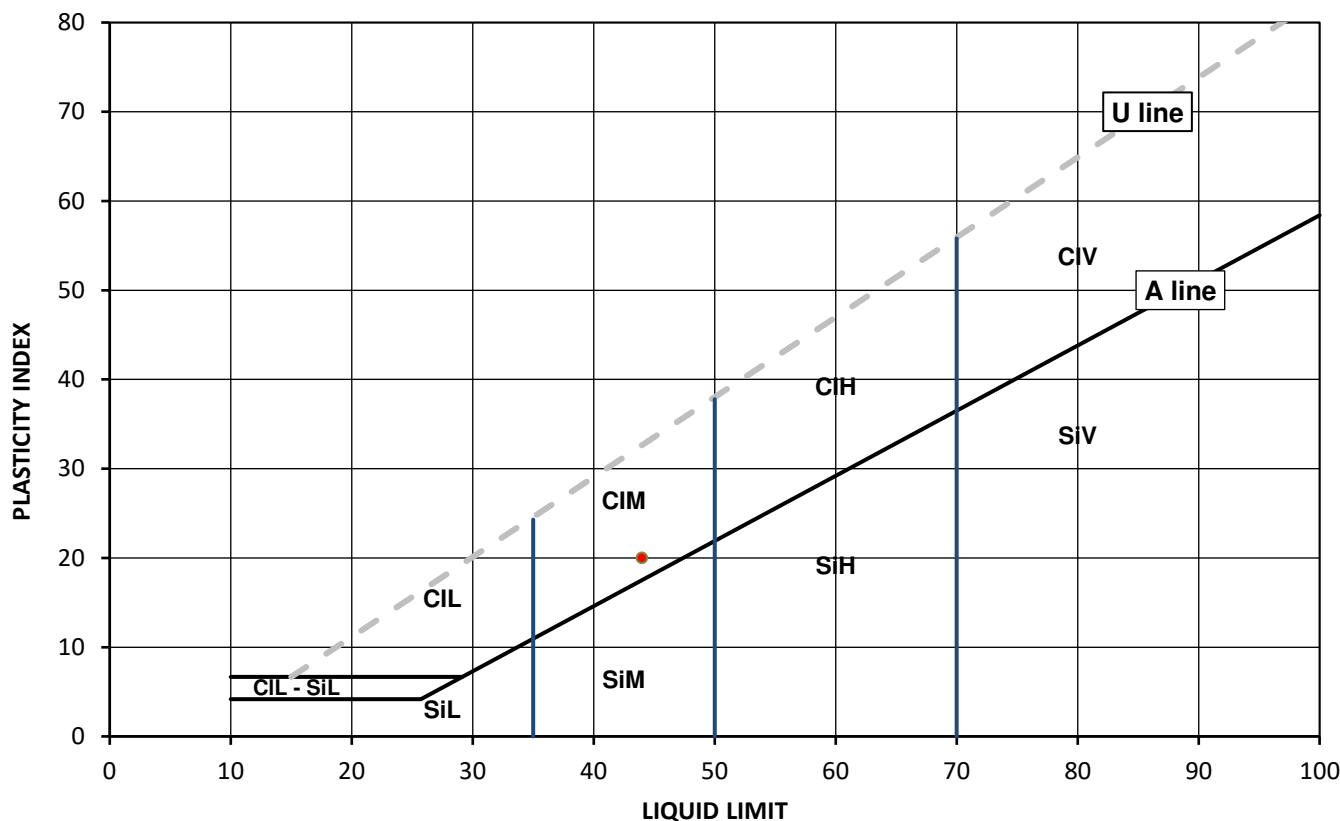
Test Results:

Laboratory Reference: 2631525
Hole No.: Bund 5_Db
Sample Reference: Not Given
Sample Description: Light brown slightly gravelly sandy CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
Cone Type: 60g/60deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
37.2	44	1.004	24	20	95



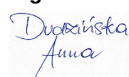
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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 Site Address: Freeks Road Burgess Hill Phase 2

Client Reference: 21949D
 Job Number: 23-25301-1
 Date Sampled: 22/03/2023
 Date Received: 24/03/2023
 Date Tested: 03/04/2023
 Sampled By: Client - Matthew Baylis

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

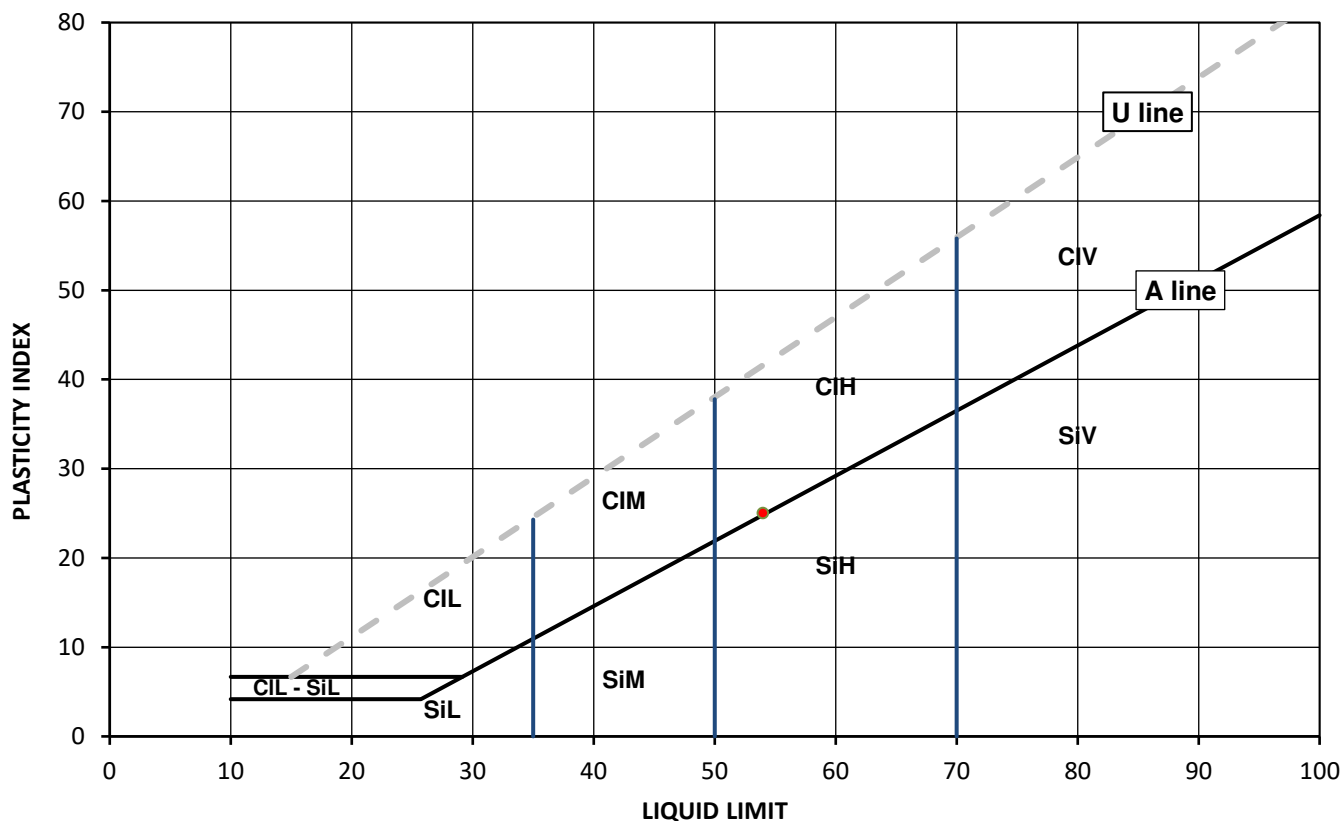
Test Results:

Laboratory Reference: 2631526
 Hole No.: Bund 6_Db
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
33.7	54	1.036	29	25	97



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

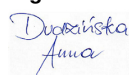
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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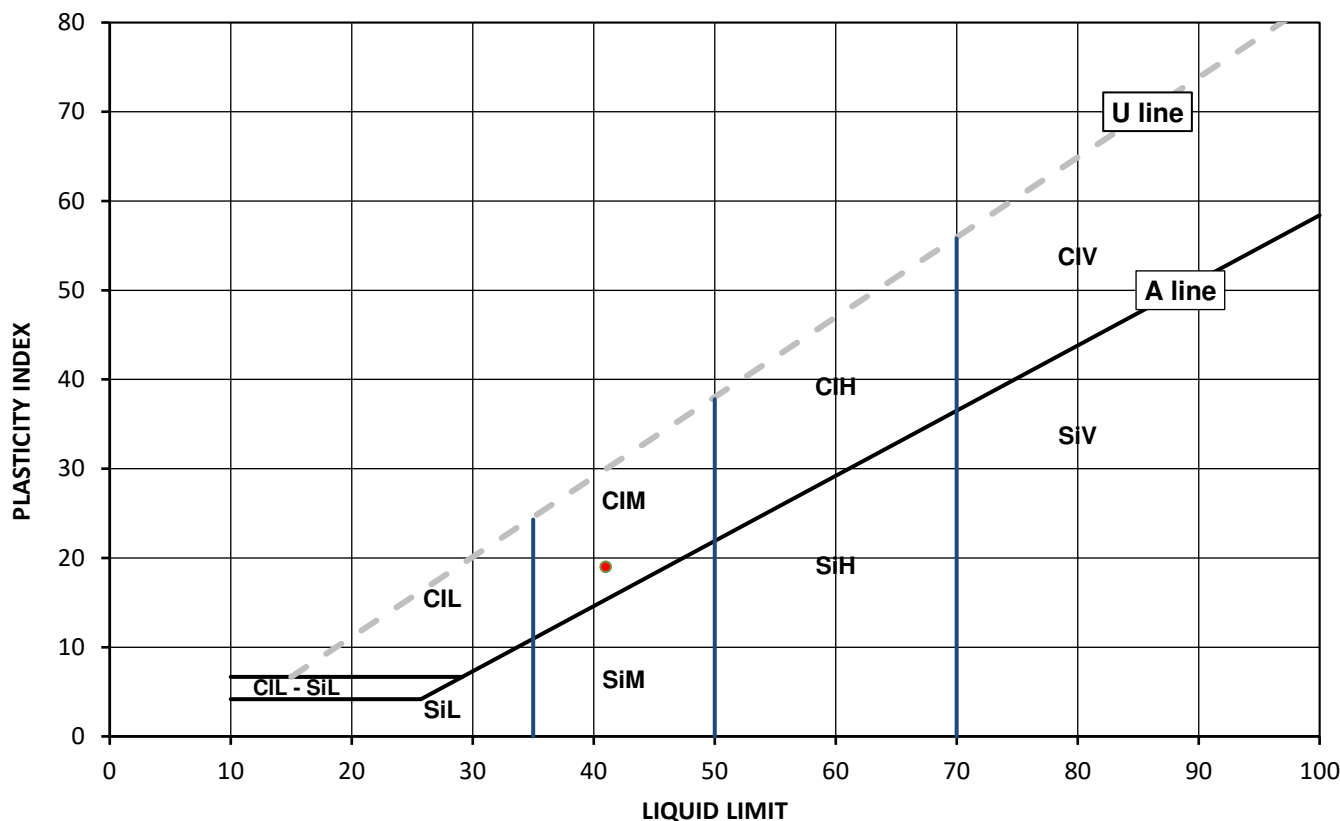
Test Results:

Laboratory Reference: 2631527
 Hole No.: Bund 7_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25.8	41	1.021	22	19	93



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

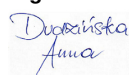
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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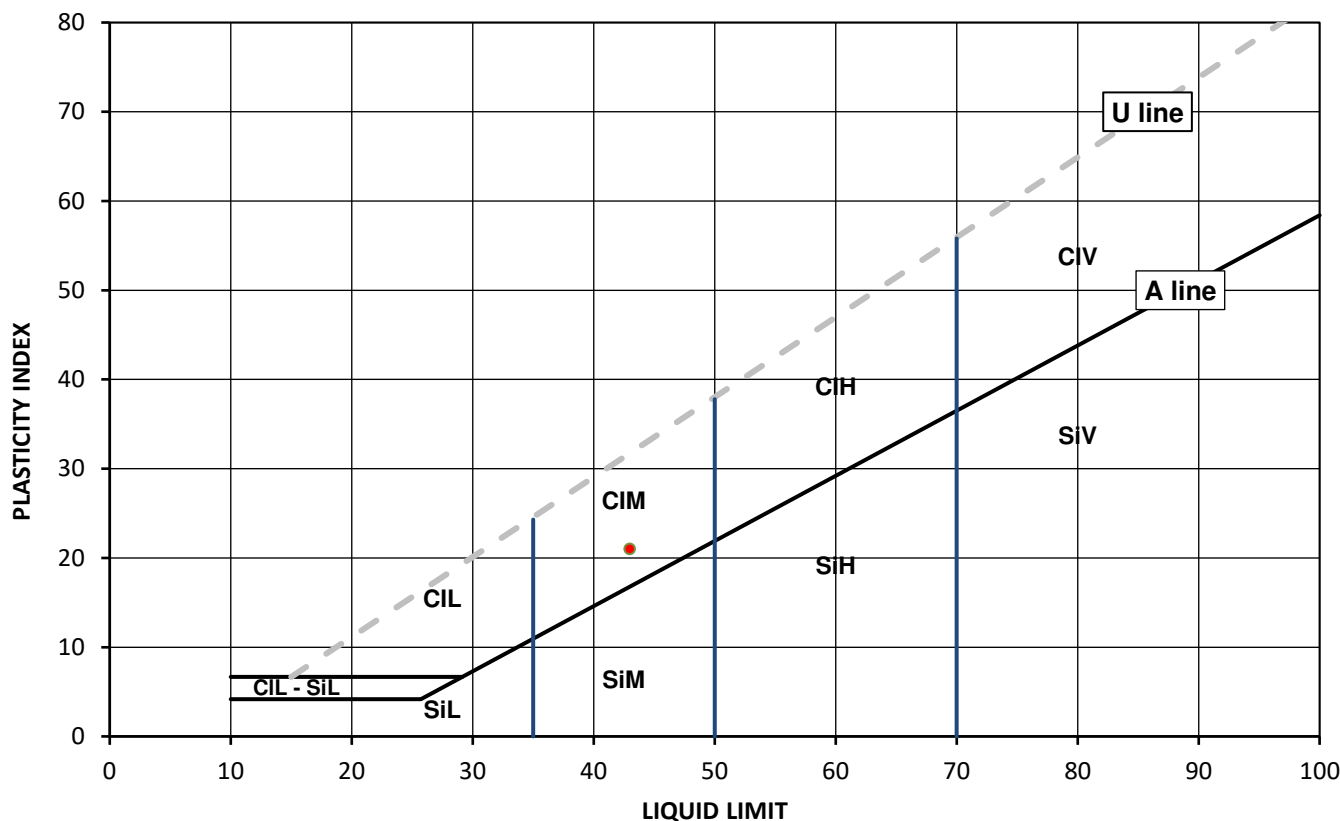
Test Results:

Laboratory Reference: 2631528
 Hole No.: Bund 7_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after washing to remove >0.425mm;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.5	43	1.020	22	21	81



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

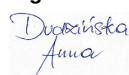
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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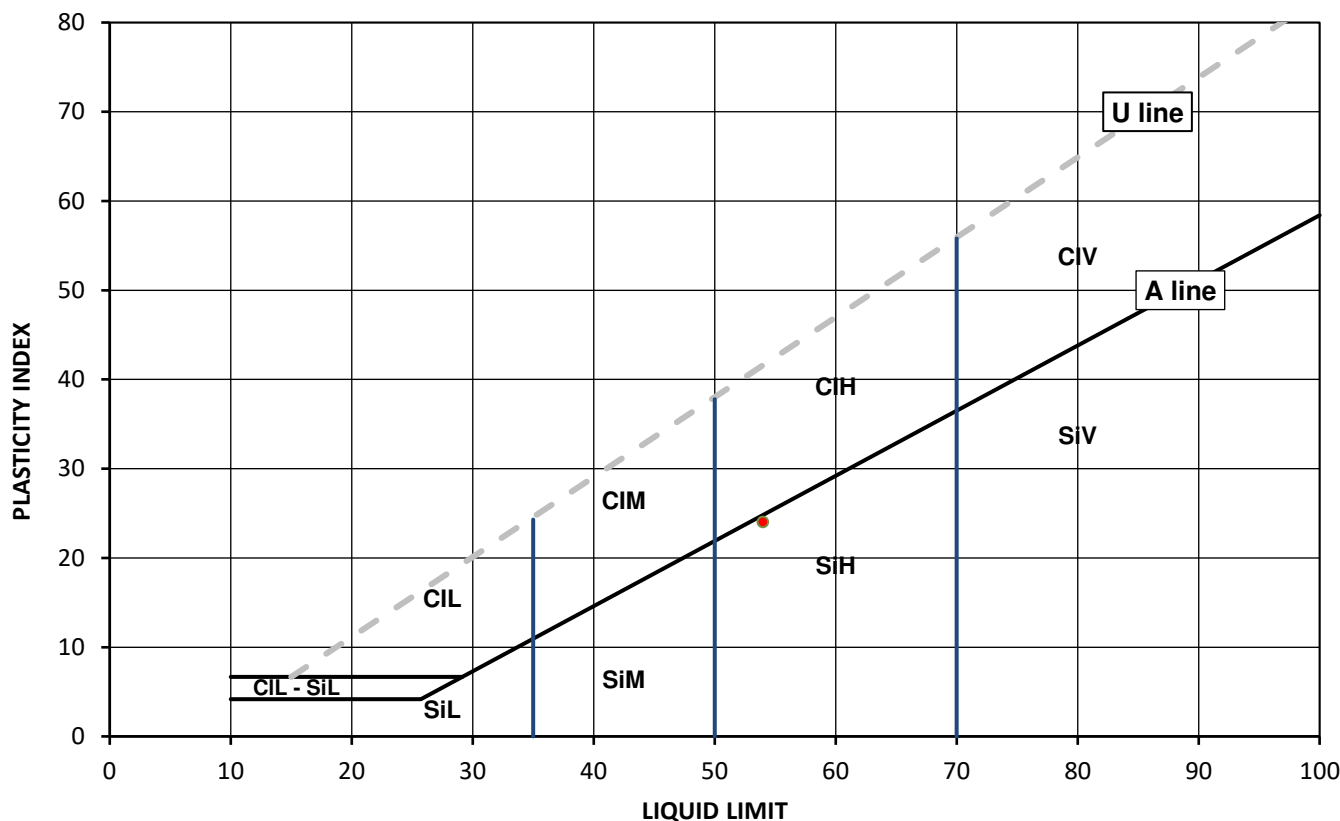
Test Results:

Laboratory Reference: 2631529
 Hole No.: Bund 8_Db
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
32.3	54	1.036	30	24	97



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

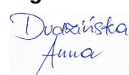
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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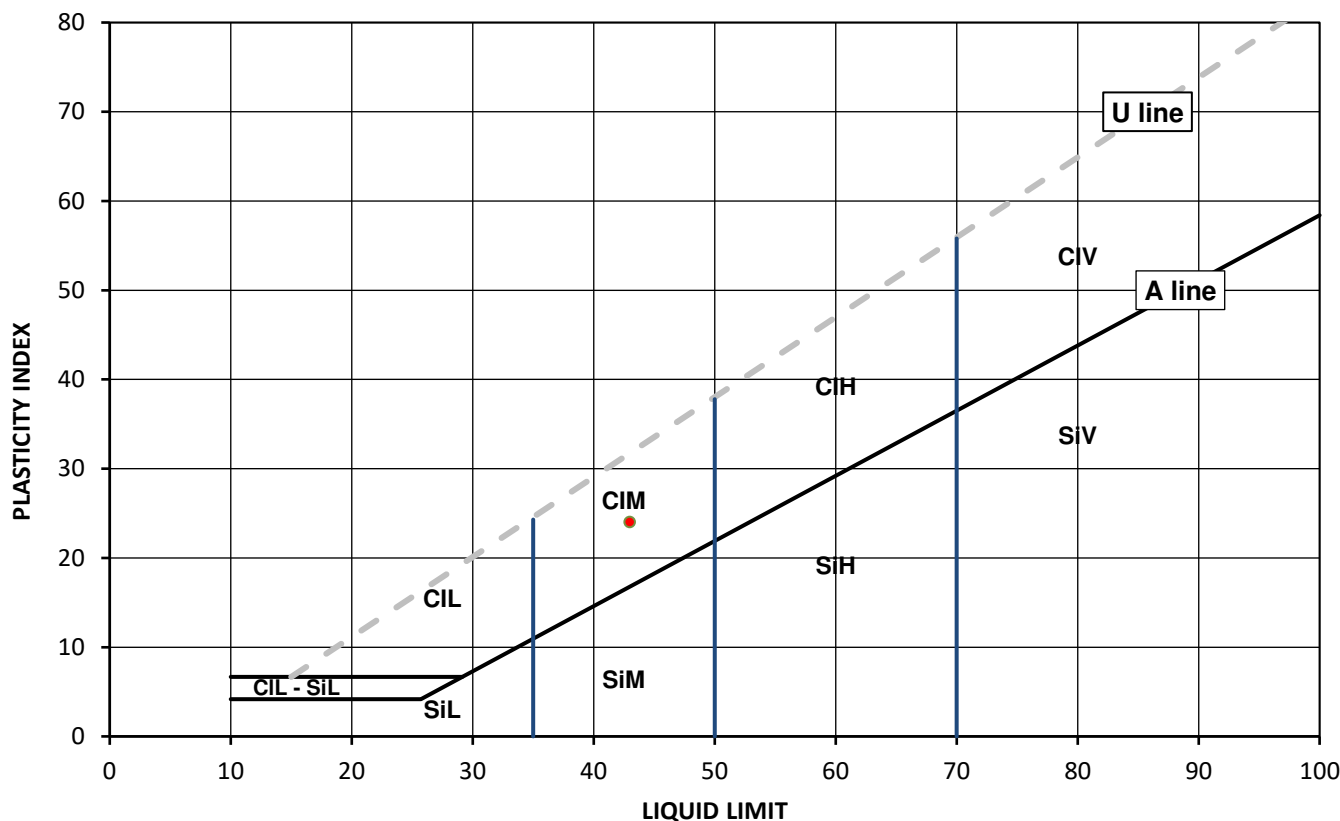
Test Results:

Laboratory Reference: 2631530
 Hole No.: Bund 9_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.7	43	1.058	19	24	97



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

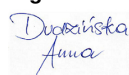
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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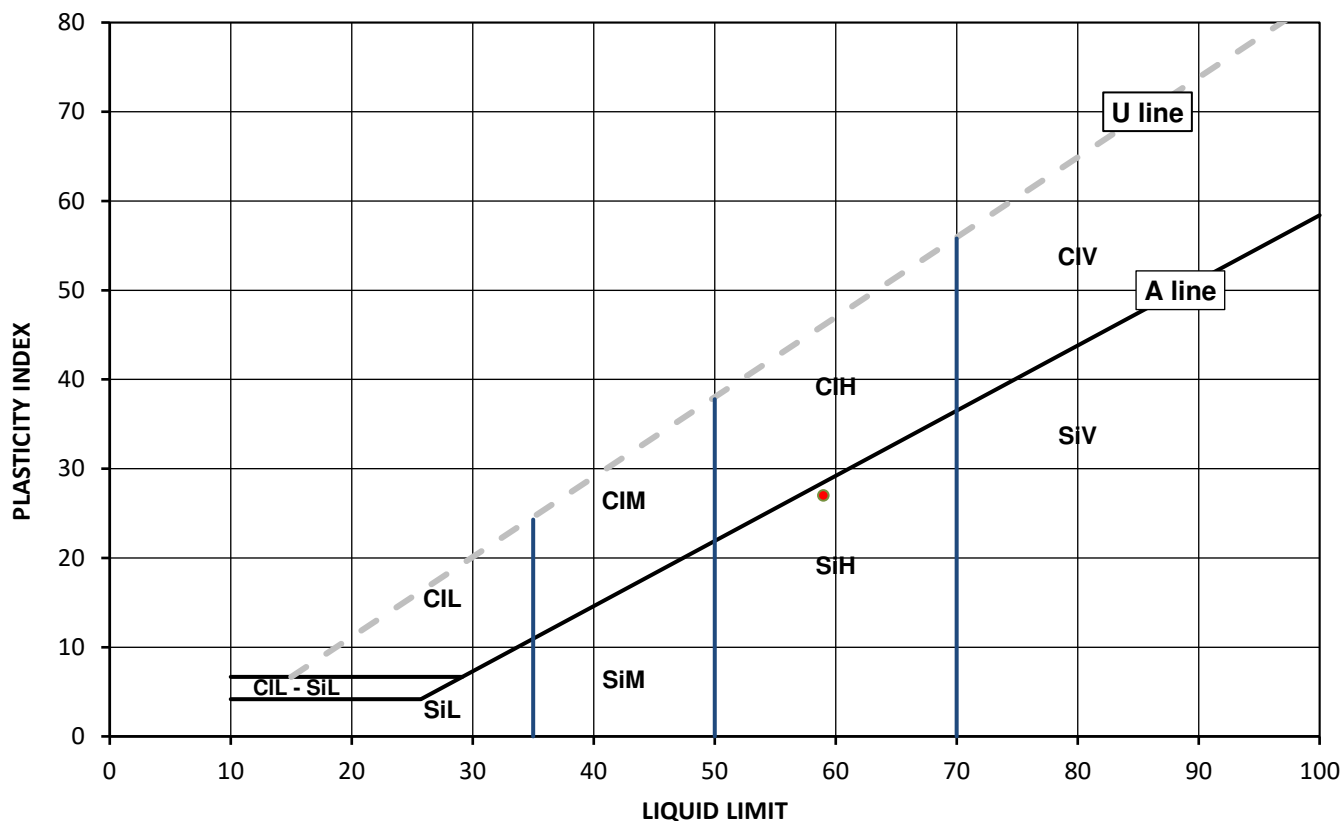
Test Results:

Laboratory Reference: 2631531
 Hole No.: Bund 9_Db
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
36.8	59	1.000	32	27	97



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

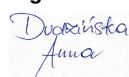
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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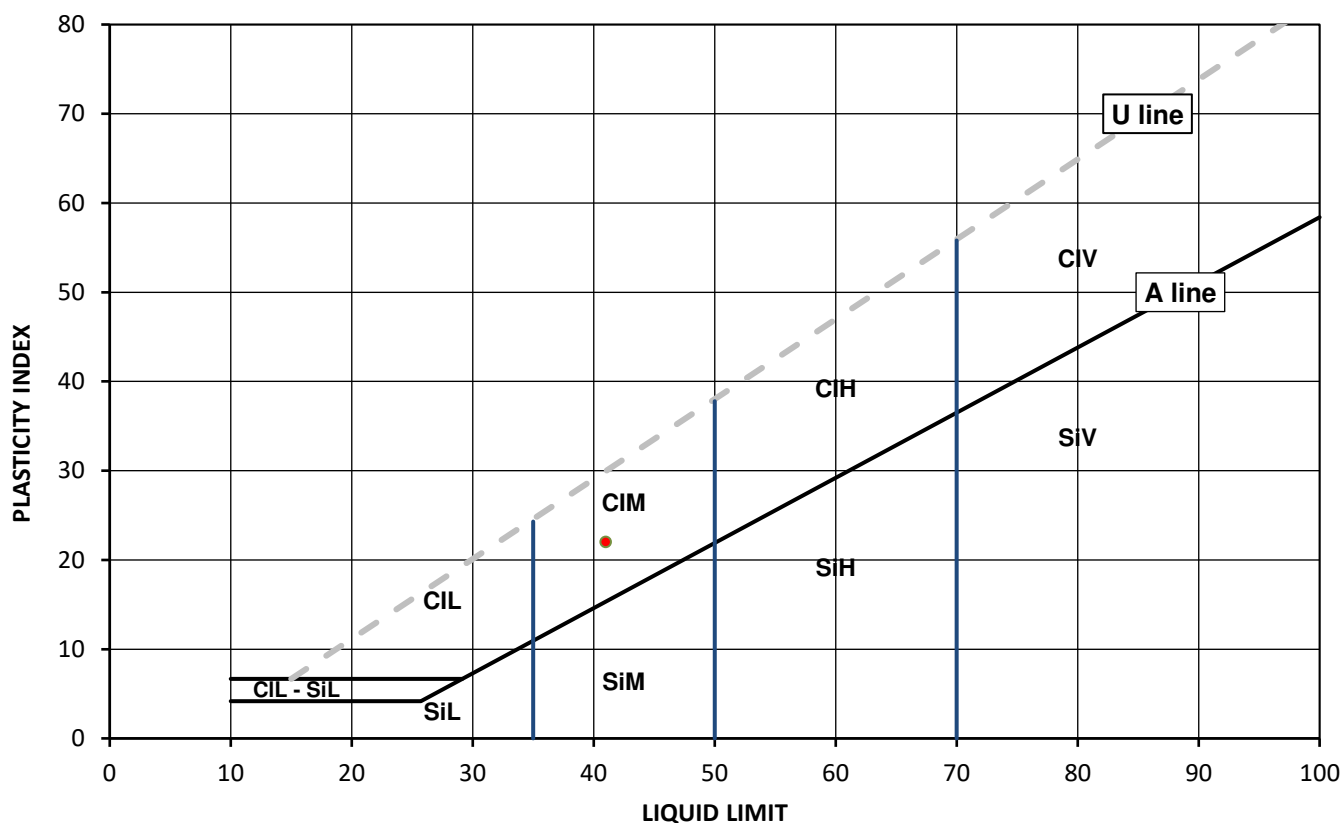
Test Results:

Laboratory Reference: 2631532
 Hole No.: Bund 10_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey sandy CLAY

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

Sample Preparation: Tested in natural condition;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23.7	41	1.020	19	22	100



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

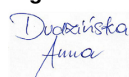
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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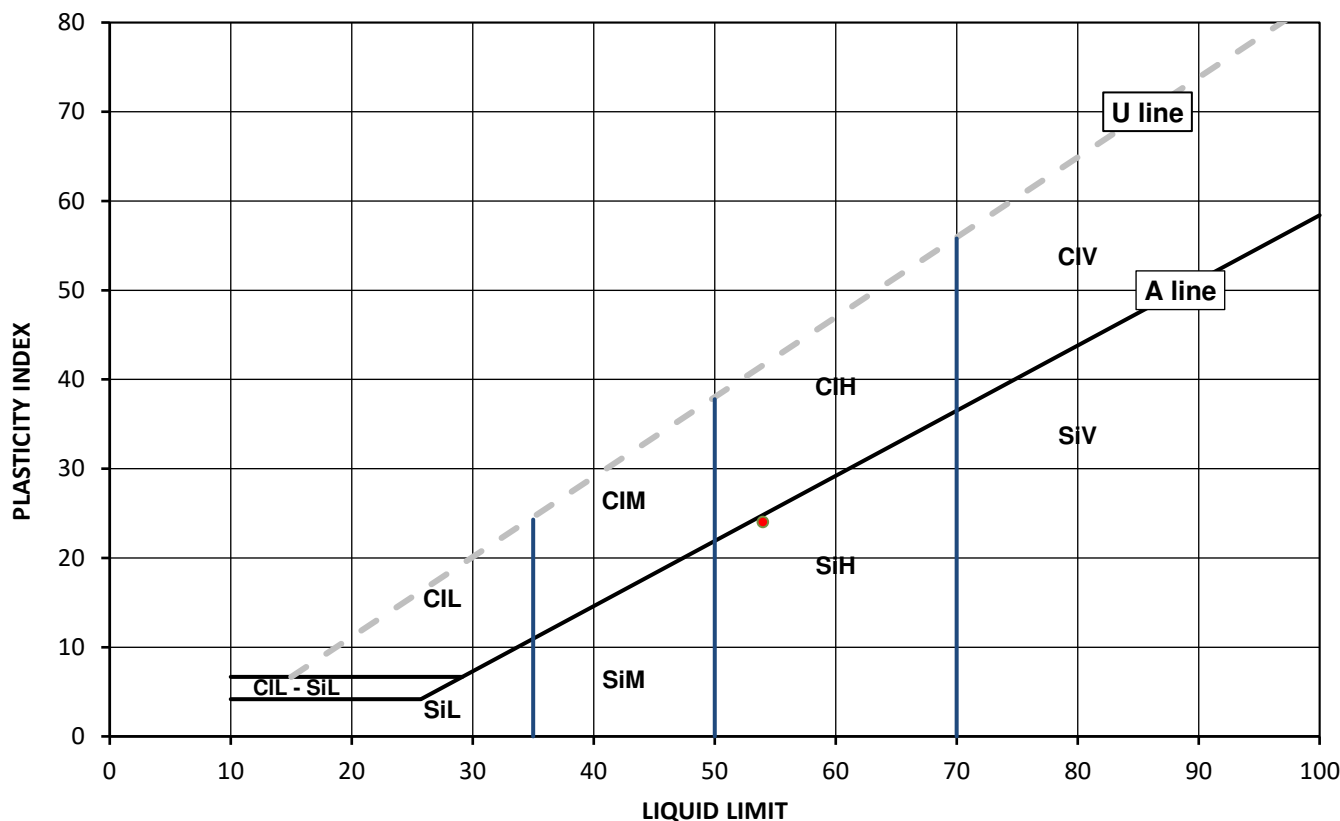
Test Results:

Laboratory Reference: 2631533
 Hole No.: Bund 10_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
37.3	54	0.967	30	24	99



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

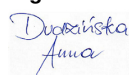
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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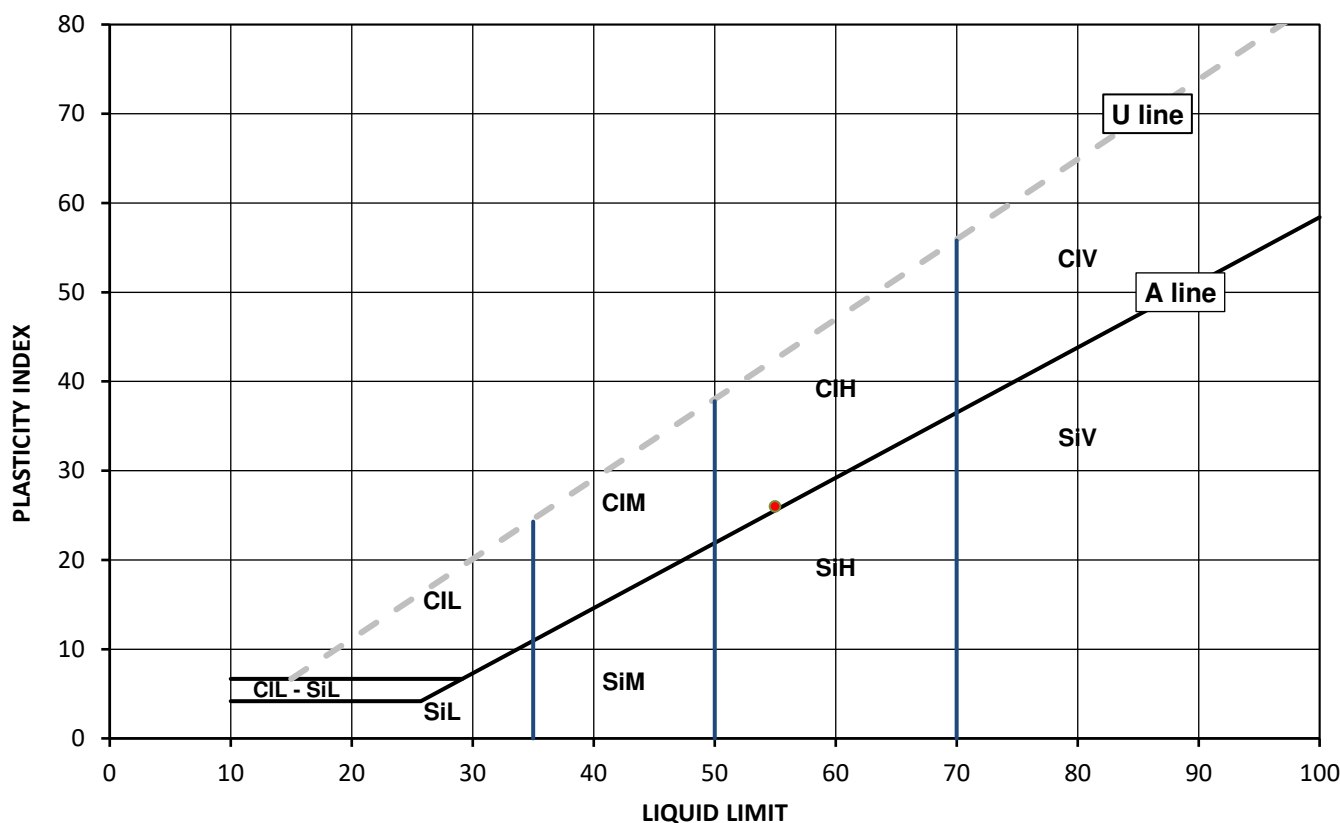
Test Results:

Laboratory Reference: 2631534
Hole No.: Bund 11_Da
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
35.6	55	0.984	29	26	92



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

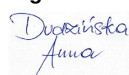
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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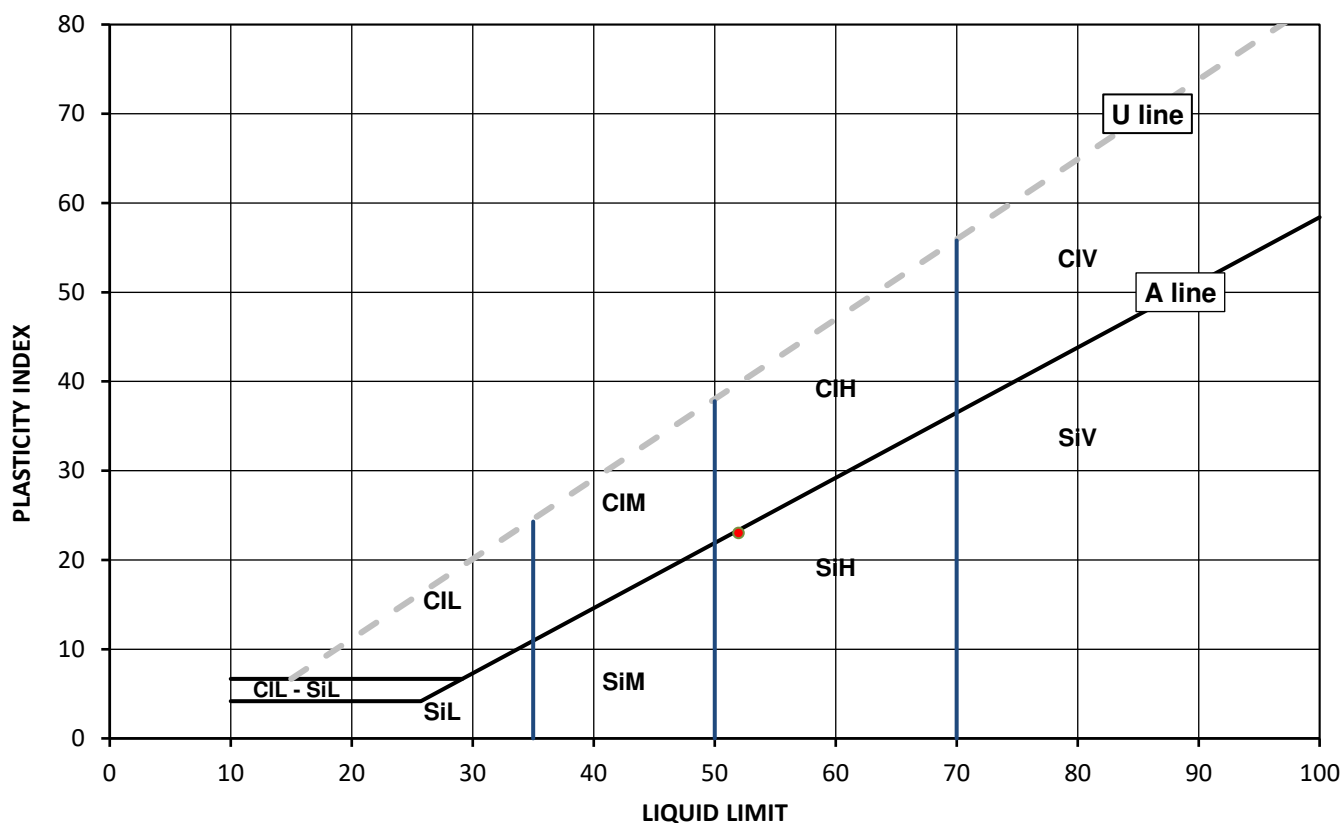
Test Results:

Laboratory Reference: 2631535
 Hole No.: Bund 11_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
36.6	52	0.967	29	23	98



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

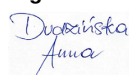
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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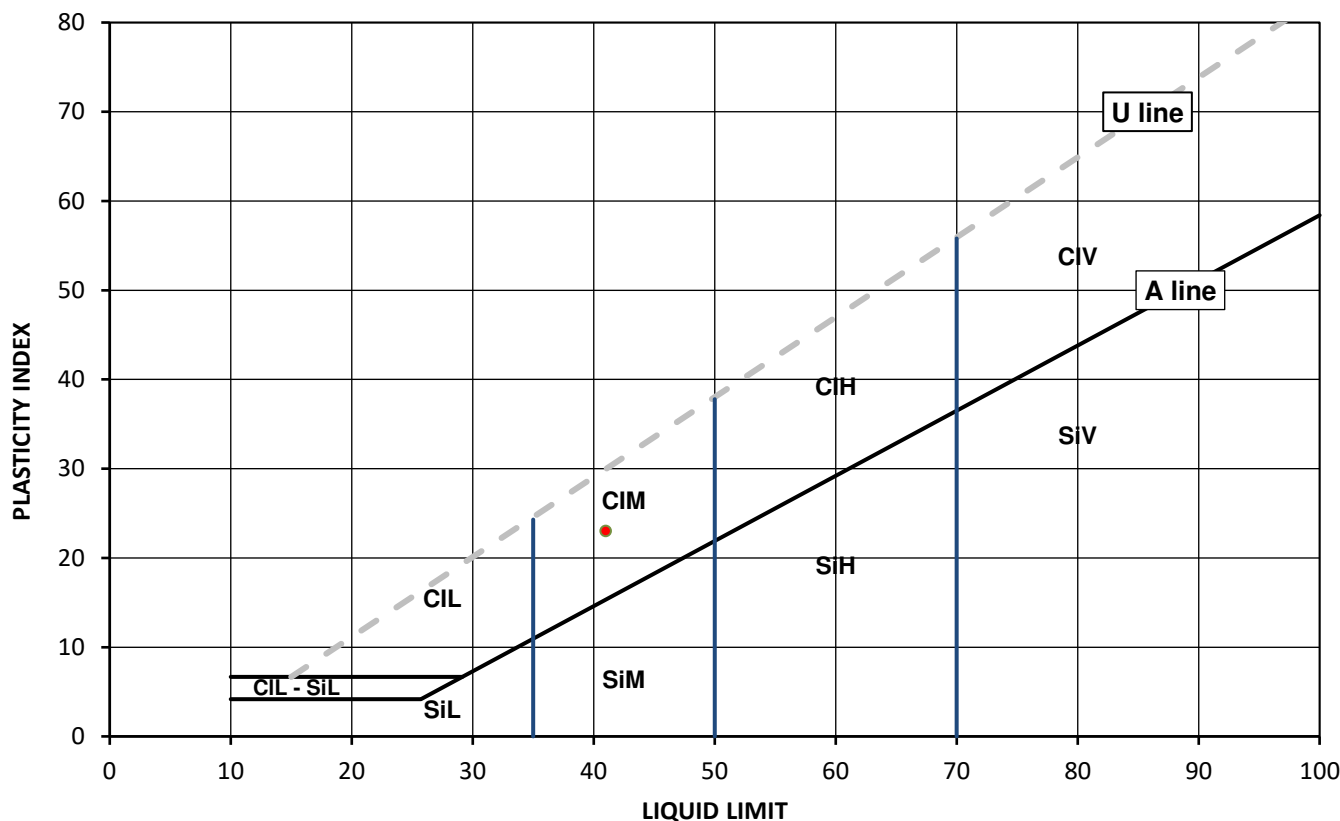
Test Results:

Laboratory Reference: 2631536
 Hole No.: Bund 12_Da
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.0	41	1.039	18	23	99



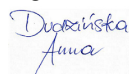
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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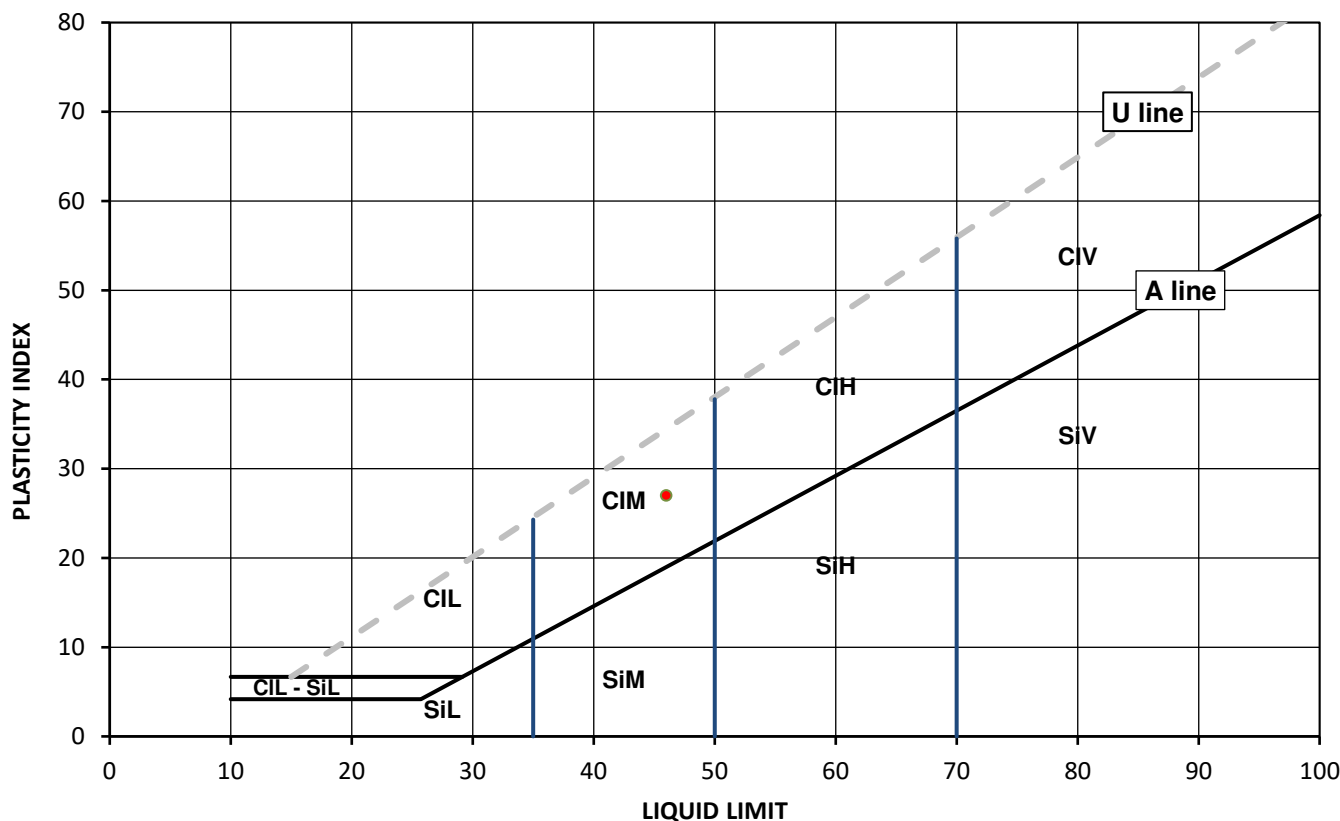
Test Results:

Laboratory Reference: 2631537
 Hole No.: Bund 13_Da
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly slightly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25.9	46	1.058	19	27	97



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

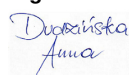
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Remarks:

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 PL Deputy Head of Reporting Team
 for and on behalf of i2 Analytical Ltd

4041

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 Cromford, Derbyshire,
 DE4 3RQ
 Contact: Matthew Baylis
 Site Address: Freeks Road Burgess Hill Phase 2

Client Reference: 21949D
 Job Number: 23-25301-1
 Date Sampled: 22/03/2023
 Date Received: 24/03/2023
 Date Tested: 03/04/2023
 Sampled By: Client - Matthew Baylis

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

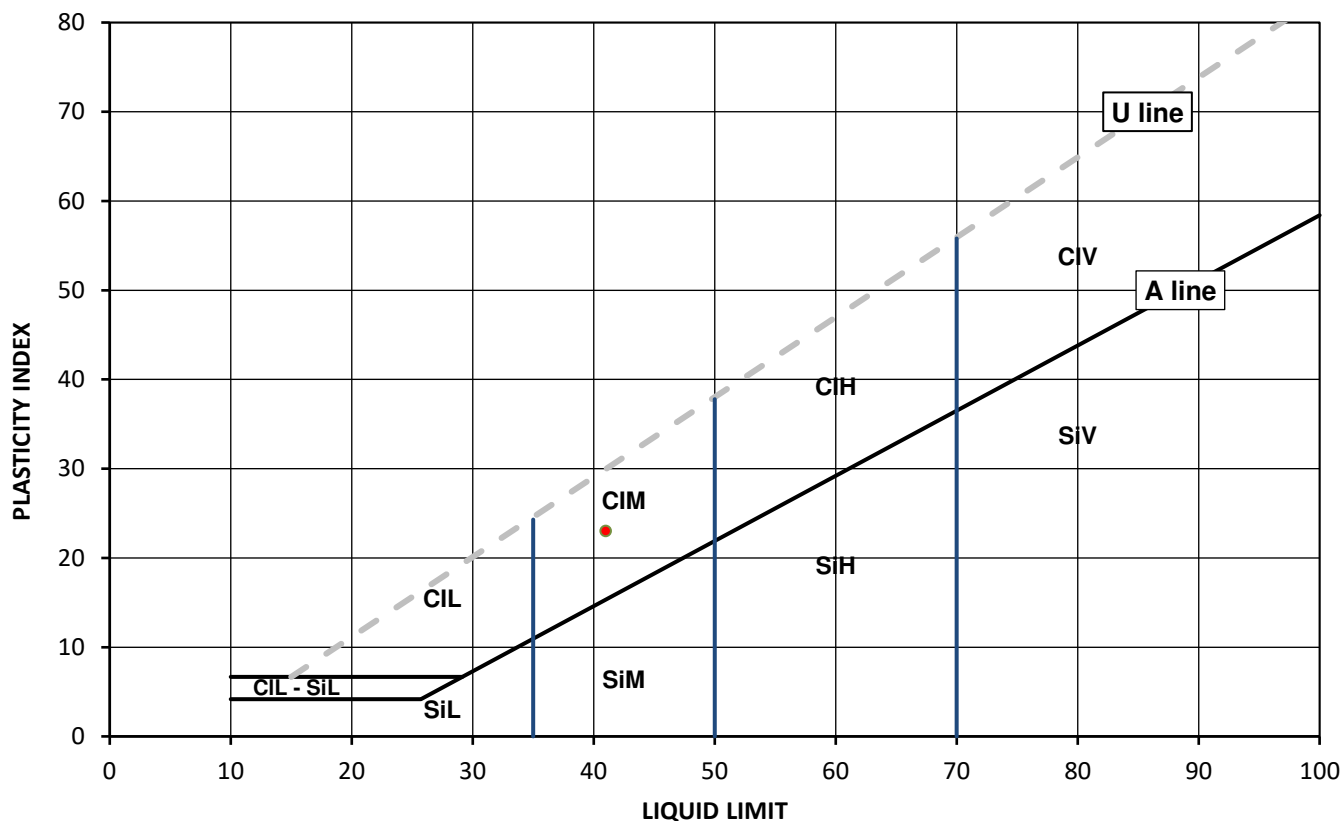
Test Results:

Laboratory Reference: 2631538
 Hole No.: Bund 13_Db
 Sample Reference: Not Given
 Sample Description: Light brown slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.6	41	1.020	18	23	98



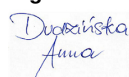
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
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	V	Very high
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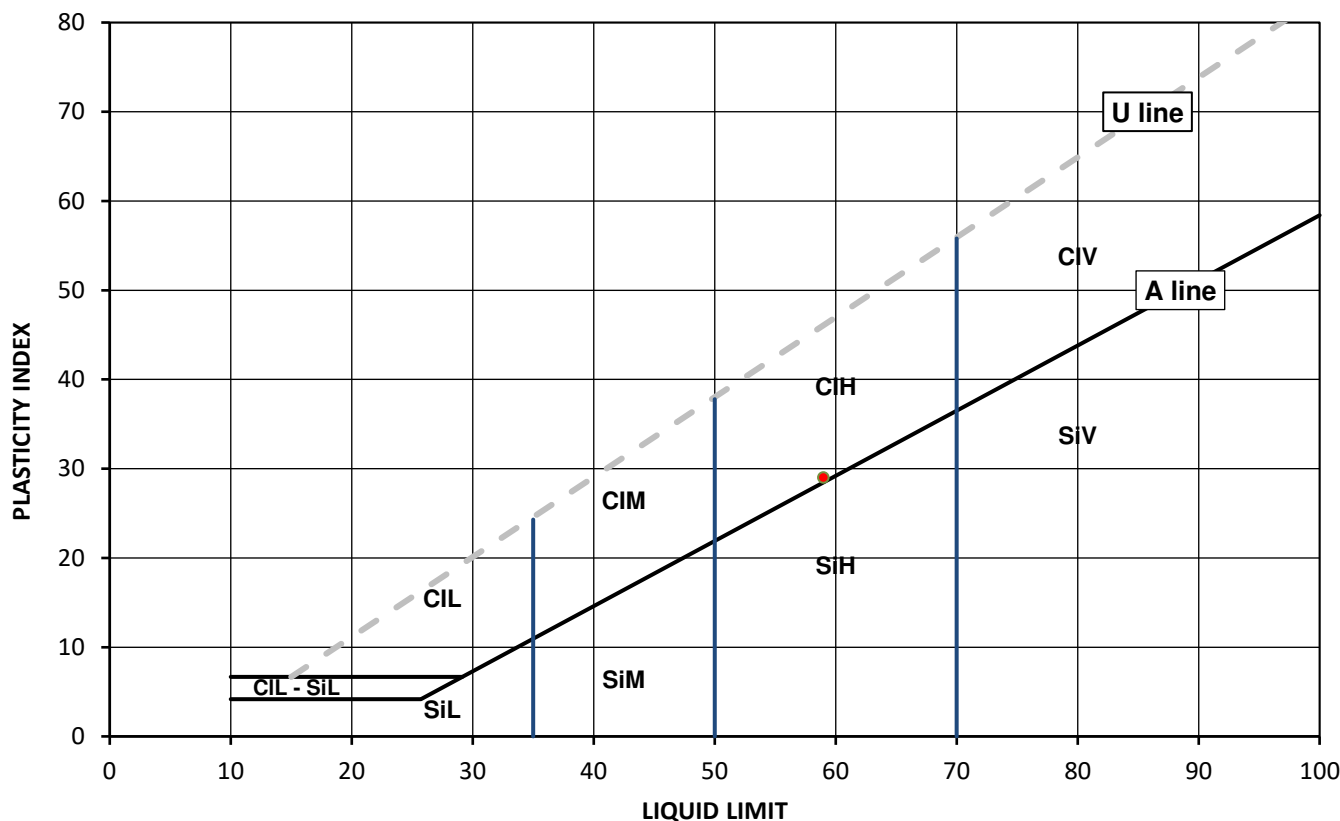
Test Results:

Laboratory Reference: 2631539
 Hole No.: Bund 14_Da
 Sample Reference: Not Given
 Sample Description: Brown slightly sandy slightly silty CLAY with fragments of roots

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

Sample Preparation: Tested in natural condition;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
34.7	59	1.055	30	29	100



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

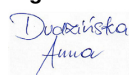
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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 Sampled By: Client - Matthew Baylis

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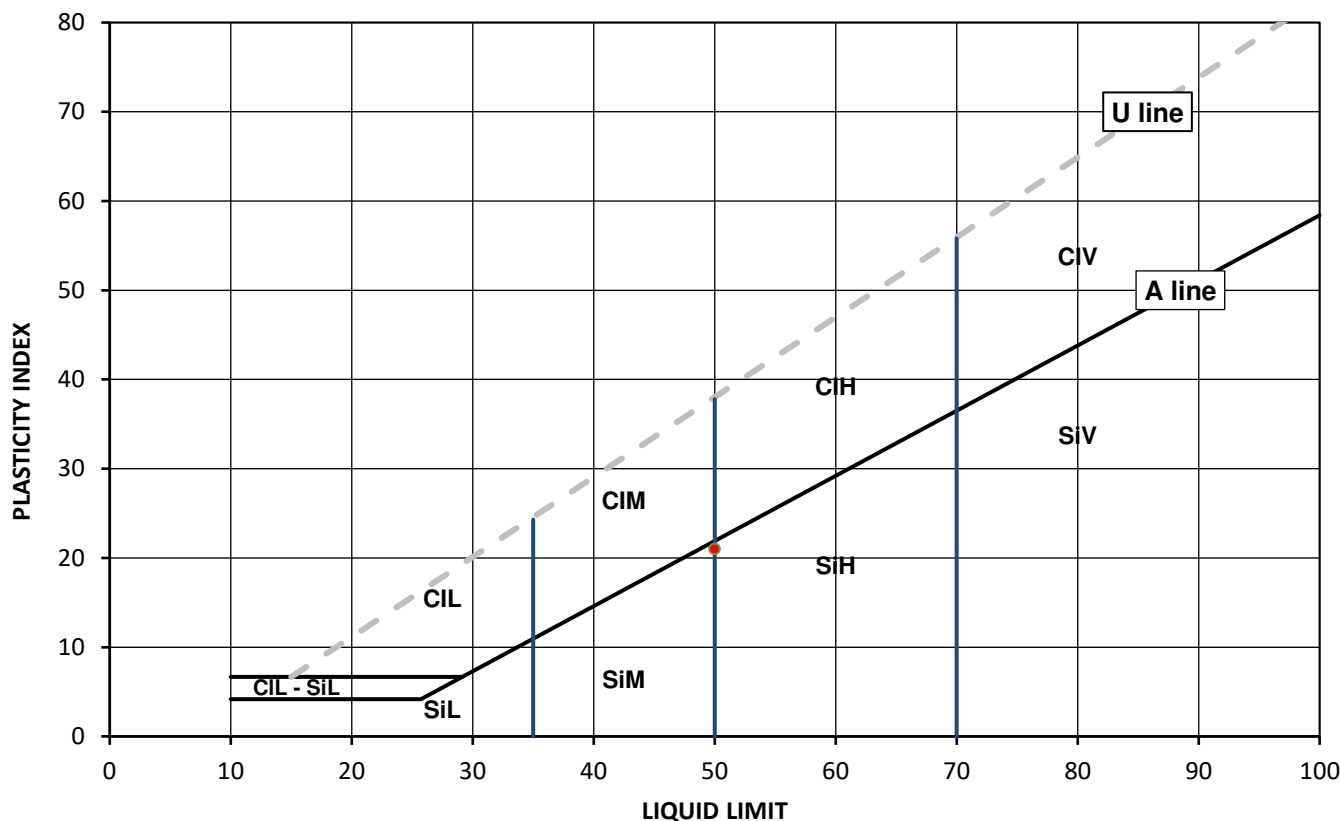
Test Results:

Laboratory Reference: 2631540
 Hole No.: Bund 14_Db
 Sample Reference: Not Given
 Sample Description: Brown slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
35.9	50	0.929	29	21	97



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

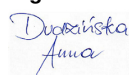
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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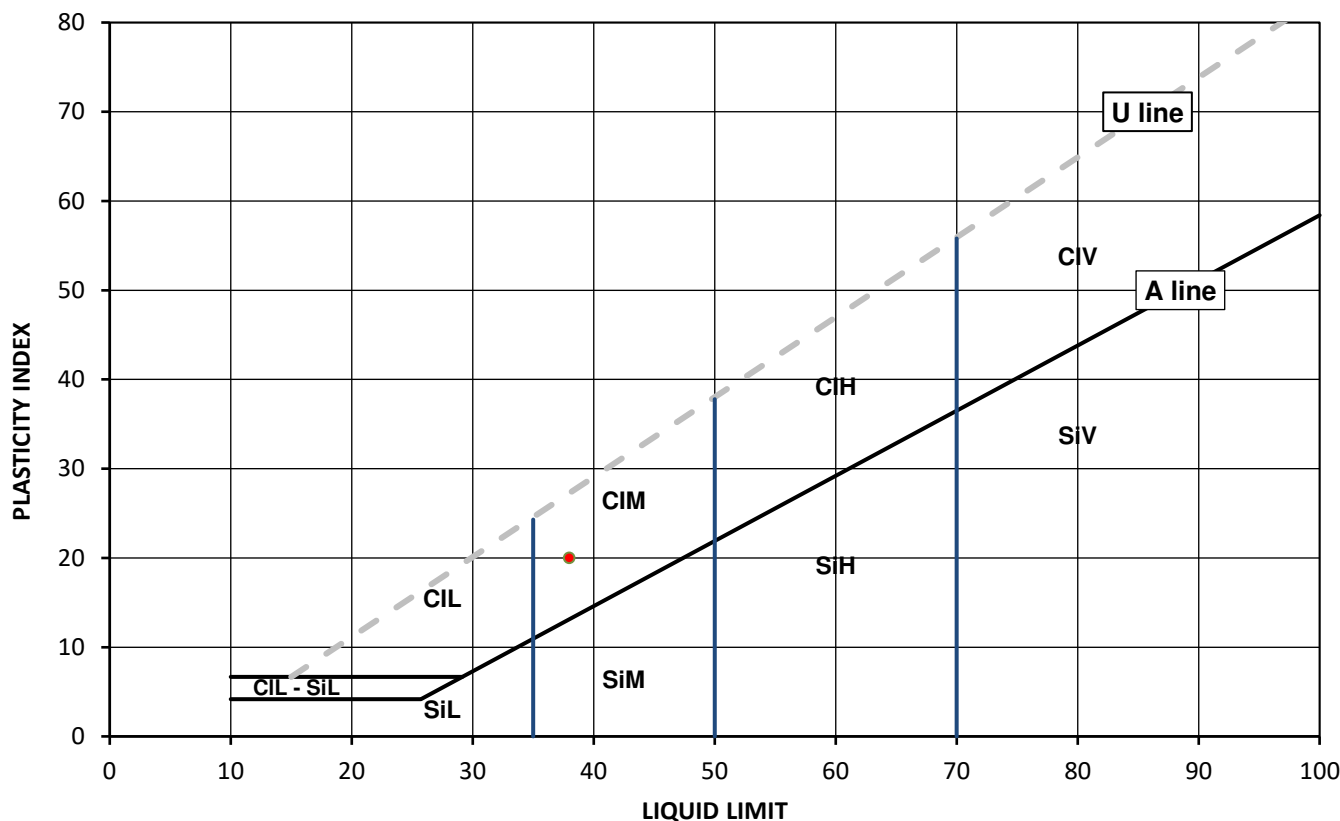
Test Results:

Laboratory Reference: 2631541
 Hole No.: Bund 15_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after washing to remove >0.425mm;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23.2	38	1.000	18	20	81



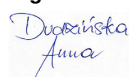
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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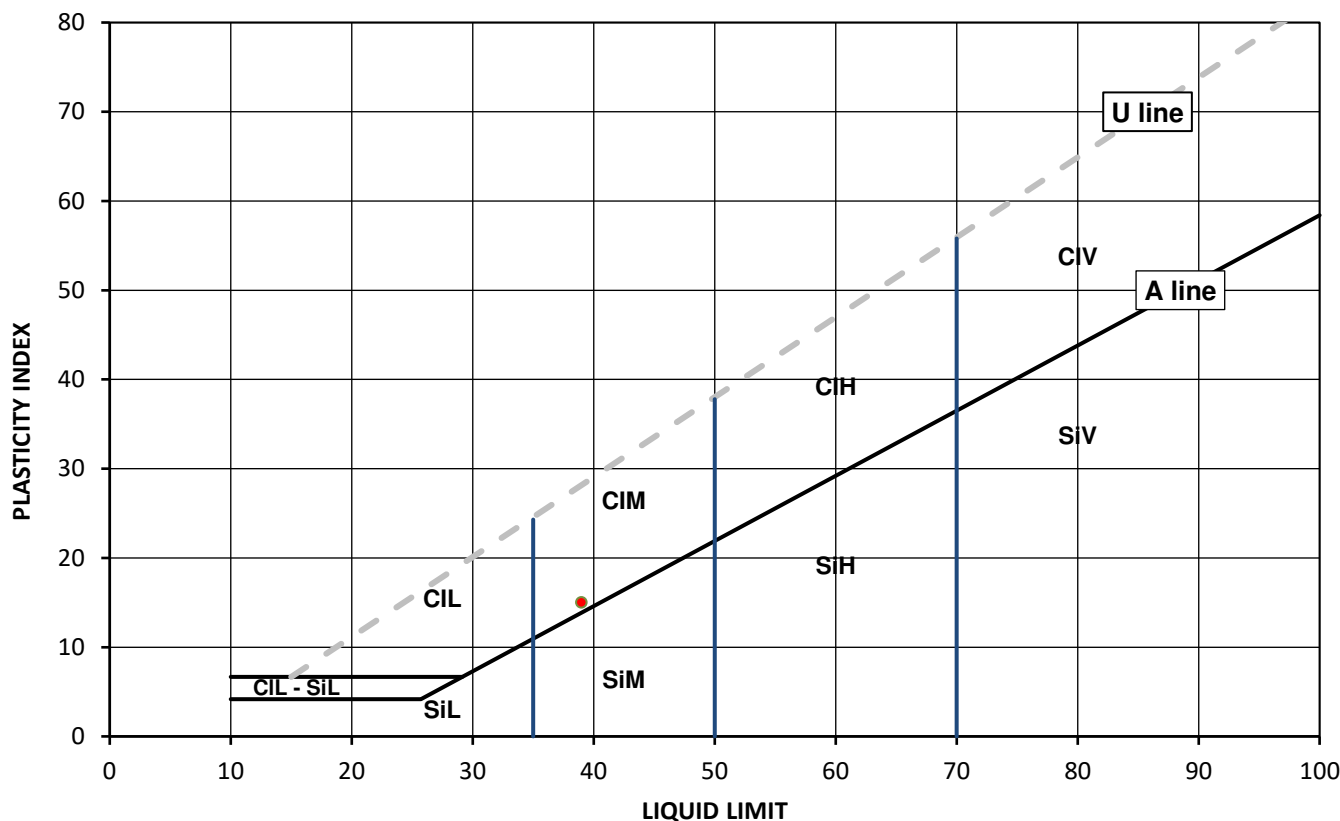
Test Results:

Laboratory Reference: 2631542
 Hole No.: Bund 15_Db
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15.0	39	1.039	24	15	98



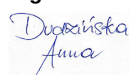
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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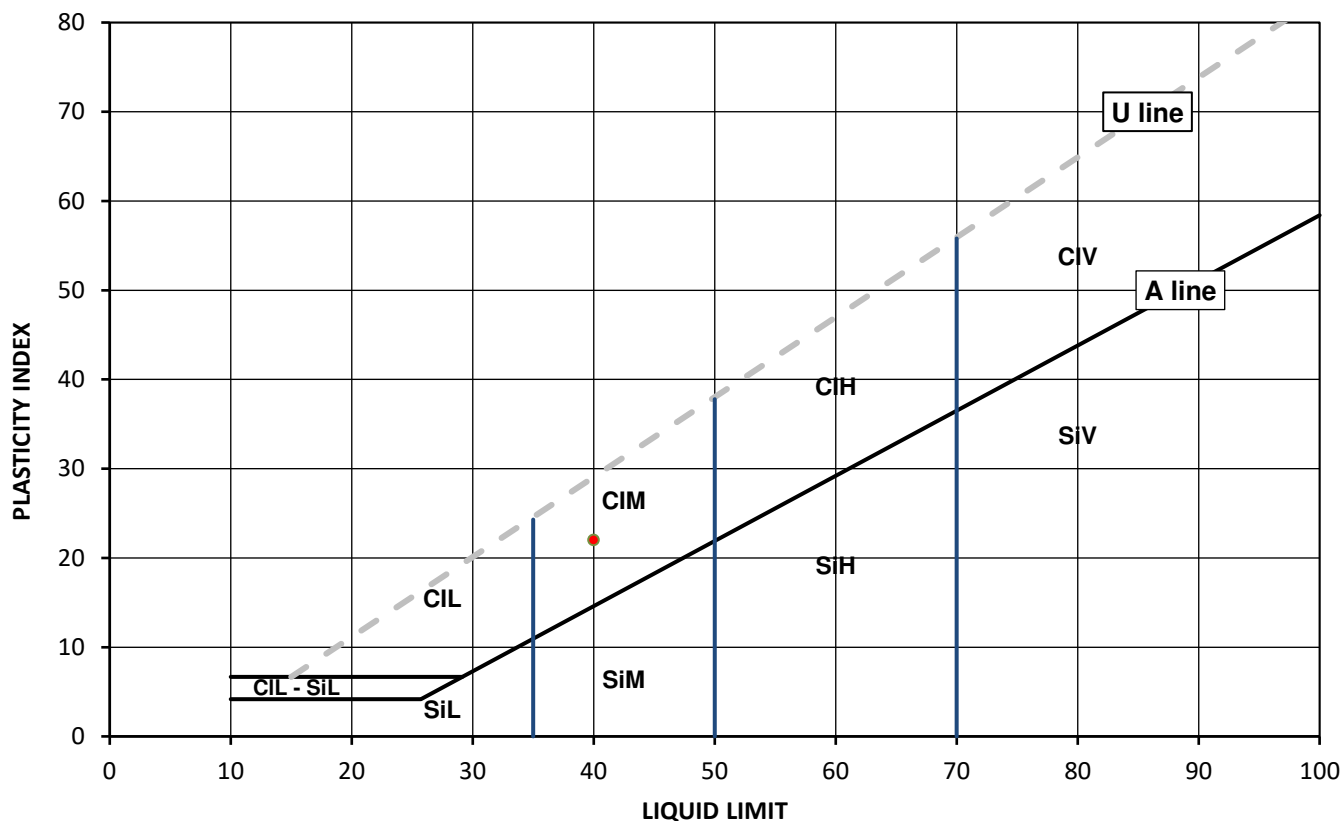
Test Results:

Laboratory Reference: 2631543
 Hole No.: Bund 16_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey sandy CLAY

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

Sample Preparation: Tested in natural condition;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15.1	40	1.039	18	22	100



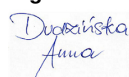
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

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

Note: Water Content by BS EN 17892-1: 2014; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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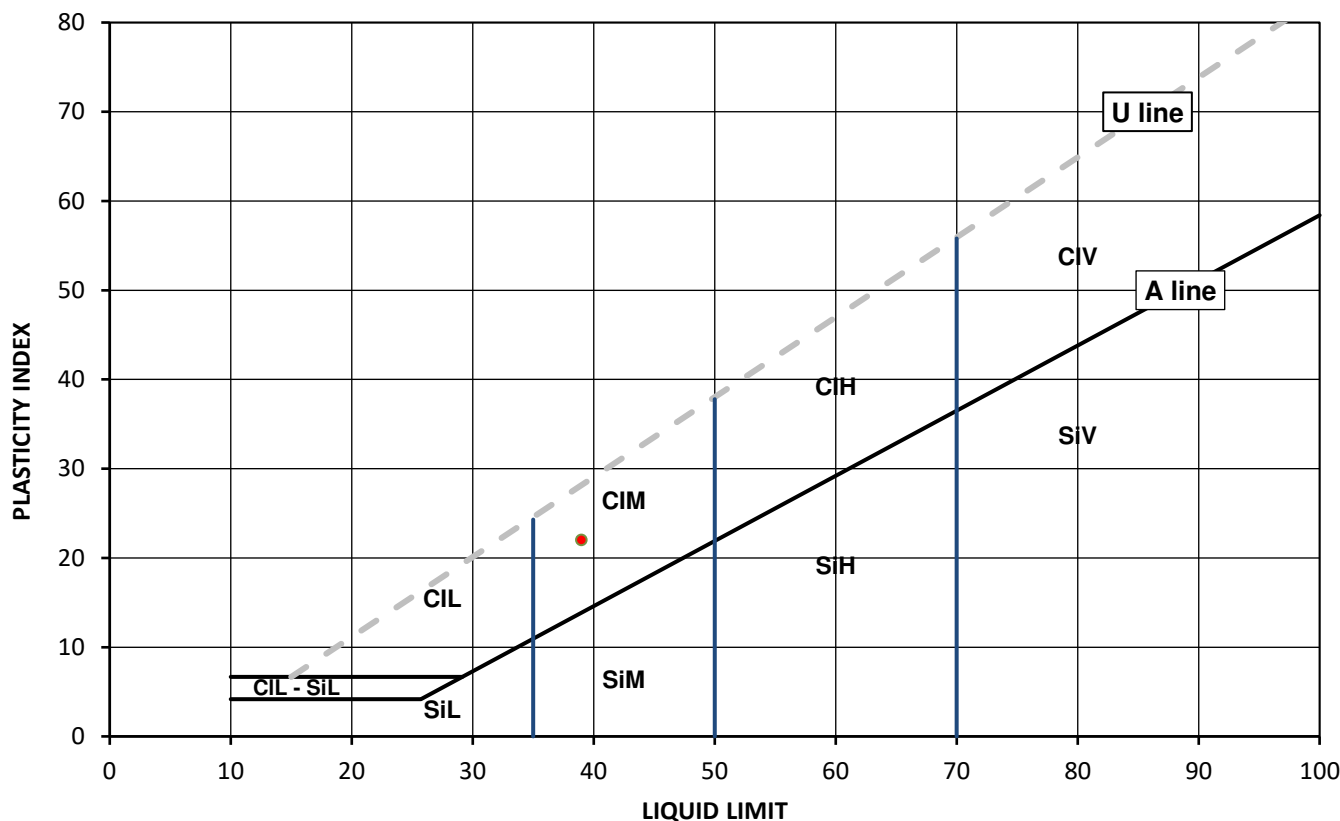
Test Results:

Laboratory Reference: 2631544
 Hole No.: Bund 17_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly sandy CLAY

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
37.4	39	1.020	17	22	99



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

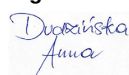
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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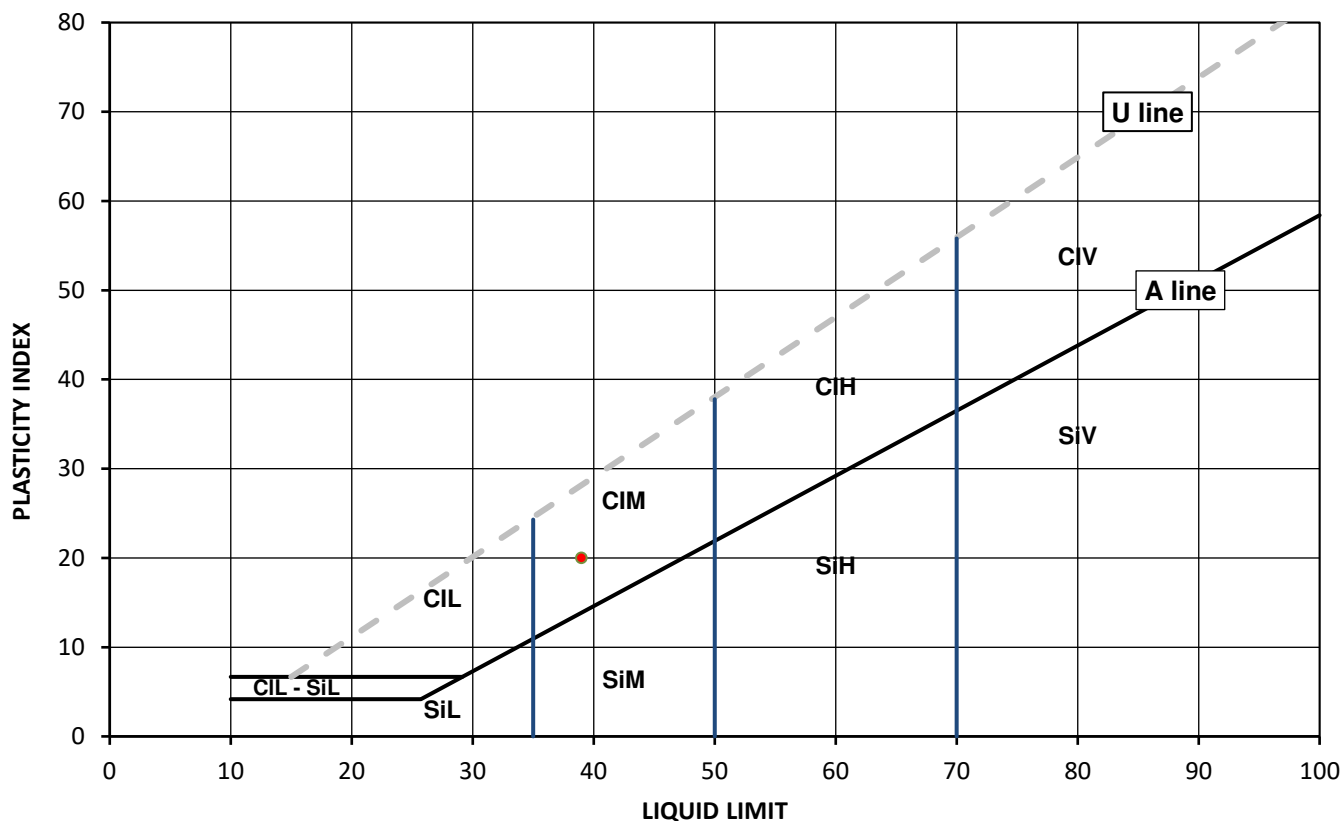
Test Results:

Laboratory Reference: 2631545
 Hole No.: Bund 17_Db
 Sample Reference: Not Given
 Sample Description: Light brown sandy CLAY

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

Sample Preparation: Tested in natural condition;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24.2	39	1.019	19	20	100



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

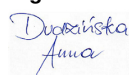
	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

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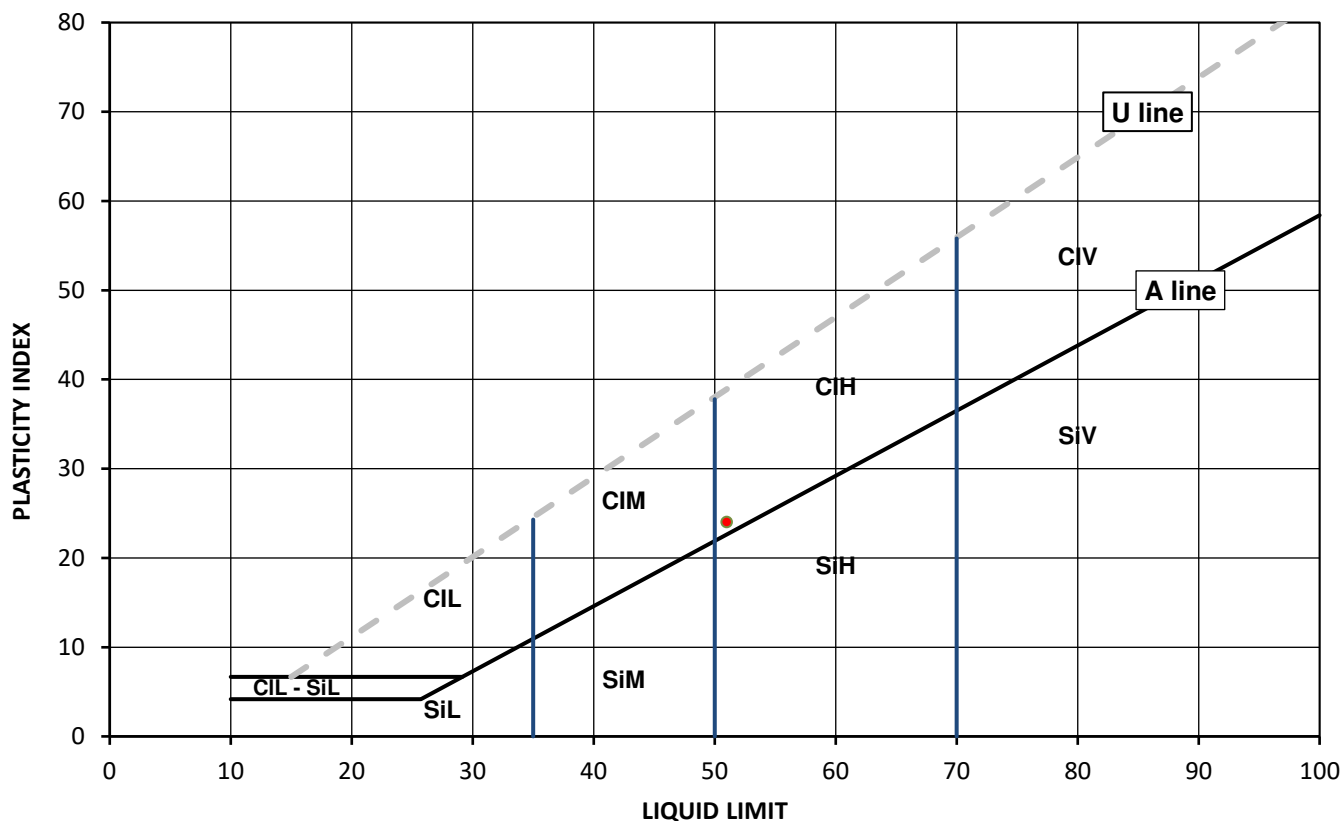
Test Results:

Laboratory Reference: 2631546
 Hole No.: Bund 18_Da
 Sample Reference: Not Given
 Sample Description: Brownish grey slightly gravelly slightly sandy CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
 Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
34.7	51	0.949	27	24	97



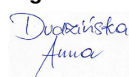
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
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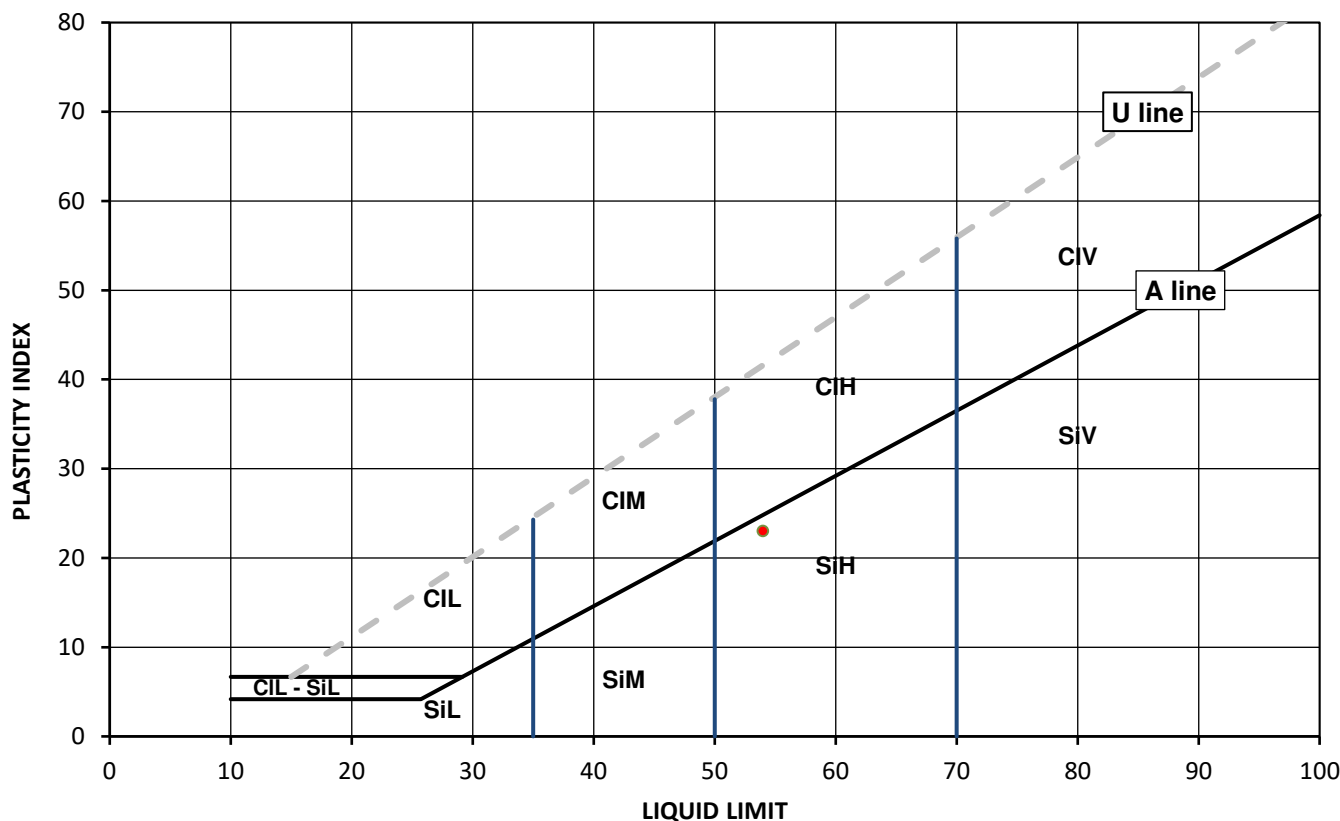
Test Results:

Laboratory Reference: 2631547
Hole No.: Bund 18_Db
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots

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

Sample Preparation: Tested after >0.425mm removed by hand;
Cone Type: 80g/30deg

As Received Water Content [W] %	Corrected Liquid Limit [WL] %	Correlation Factor	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
32.5	54	0.967	31	23	99



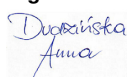
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
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DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

W by BS EN 17892-1: 2014; Liquid and Plastic Limit by BS EN ISO 17892-12:2018+A1:2021: Clause 5.3 (4 Point Test), Clause 5.3.14 (1 Point Test) and 5.5; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
2631518	Bund 1_Db	Not Given	Not Given	Not Given	D	Light brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23.8	98	48	1.022	21	27	80g/30 deg	R			
2631519	Bund 2_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	27.1	97	51	1.039	22	29	80g/30 deg	R			
2631520	Bund 2_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly sandy CLAY	Atterberg 1 Point	25.3	100	53	1.058	21	32	80g/30 deg	N			
2631521	Bund 3_Da	Not Given	Not Given	Not Given	D	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	24.8	96	37	1.000	21	16	80g/30 deg	R			
2631522	Bund 3_Db	Not Given	Not Given	Not Given	D	Brown slightly gravelly slightly sandy clayey SILT with fragments of roots	Atterberg 1 Point	37.3	92	49	0.949	33	16	80g/30 deg	W			
2631523	Bund 4_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	25.1	98	43	0.984	19	24	80g/30 deg	R			
2631524	Bund 5_Da	Not Given	Not Given	Not Given	D	Brown slightly gravelly sandy silty CLAY with fragments of roots	Atterberg 1 Point	31.7	98	44	0.984	26	18	80g/30 deg	R			
2631525	Bund 5_Db	Not Given	Not Given	Not Given	D	Light brown slightly gravelly sandy CLAY with fragments of roots	Atterberg 1 Point	37.2	95	44	1.004	24	20	60g/60 deg	R			
2631526	Bund 6_Db	Not Given	Not Given	Not Given	D	Brown slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	33.7	97	54	1.036	29	25	80g/30 deg	R			
2631527	Bund 7_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY with fragments of roots	Atterberg 1 Point	25.8	93	41	1.021	22	19	80g/30 deg	R			

Note: # Non accredited; NP - Non plastic; N - Tested in natural condition, R - Tested after >0.425mm removed by hand, W - Tested after washing to remove >425mm; * - One point liquid limit corrected as per the report Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Comments:

Signed:

Dudzińska Anna

Anna Dudzińska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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



Environmental Science

4041

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

W by BS EN 17892-1: 2014; Liquid and Plastic Limit by BS EN ISO 17892-12:2018+A1:2021: Clause 5.3 (4 Point Test), Clause 5.3.14 (1 Point Test) and 5.5; Correlation Factor by Clayton C.R.I and Jukes A.W (1978)

Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
2631528	Bund 7_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	24.5	81	43	1.020	22	21	80g/30 deg	W			
2631529	Bund 8_Db	Not Given	Not Given	Not Given	D	Brown slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	32.3	97	54	1.036	30	24	80g/30 deg	R			
2631530	Bund 9_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	24.7	97	43	1.058	19	24	80g/30 deg	R			
2631531	Bund 9_Db	Not Given	Not Given	Not Given	D	Brown slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	36.8	97	59	1.000	32	27	80g/30 deg	R			
2631532	Bund 10_Da	Not Given	Not Given	Not Given	D	Brownish grey sandy CLAY	Atterberg 1 Point	23.7	100	41	1.020	19	22	80g/30 deg	N			
2631533	Bund 10_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	37.3	99	54	0.967	30	24	80g/30 deg	R			
2631534	Bund 11_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	35.6	92	55	0.984	29	26	80g/30 deg	R			
2631535	Bund 11_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	36.6	98	52	0.967	29	23	80g/30 deg	R			
2631536	Bund 12_Da	Not Given	Not Given	Not Given	D	Light brown slightly gravelly sandy CLAY	Atterberg 1 Point	24.0	99	41	1.039	18	23	80g/30 deg	R			
2631537	Bund 13_Da	Not Given	Not Given	Not Given	D	Light brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	25.9	97	46	1.058	19	27	80g/30 deg	R			

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Dudzińska Anna

Anna Dudzińska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd



SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
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Northampton NN4 7EB



Environmental Science

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Sampled By: Client - Matthew Baylis

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit							Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD
			m	m														
2631538	Bund 13_Db	Not Given	Not Given	Not Given	D	Light brown slightly gravelly sandy CLAY	Atterberg 1 Point	24.6	98	41	1.020	18	23	80g/30 deg	R			
2631539	Bund 14_Da	Not Given	Not Given	Not Given	D	Brown slightly sandy slightly silty CLAY with fragments of roots	Atterberg 1 Point	34.7	100	59	1.055	30	29	80g/30 deg	N			
2631540	Bund 14_Db	Not Given	Not Given	Not Given	D	Brown slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	35.9	97	50	0.929	29	21	80g/30 deg	R			
2631541	Bund 15_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	23.2	81	38	1.000	18	20	80g/30 deg	W			
2631542	Bund 15_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	15.0	98	39	1.039	24	15	80g/30 deg	R			
2631543	Bund 16_Da	Not Given	Not Given	Not Given	D	Brownish grey sandy CLAY	Atterberg 1 Point	15.1	100	40	1.039	18	22	80g/30 deg	N			
2631544	Bund 17_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	37.4	99	39	1.020	17	22	80g/30 deg	R			
2631545	Bund 17_Db	Not Given	Not Given	Not Given	D	Light brown sandy CLAY	Atterberg 1 Point	24.2	100	39	1.019	19	20	80g/30 deg	N			
2631546	Bund 18_Da	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy CLAY with fragments of roots	Atterberg 1 Point	34.7	97	51	0.949	27	24	80g/30 deg	R			
2631547	Bund 18_Db	Not Given	Not Given	Not Given	D	Brownish grey slightly gravelly slightly sandy silty CLAY with fragments of roots	Atterberg 1 Point	32.5	99	54	0.967	31	23	80g/30 deg	R			

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for and on behalf of i2 Analytical Ltd



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Sampled By: Client - Matthew Baylis

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Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	W	Liquid & Plastic Limit								Density		
		Reference	Depth Top	Depth Base	Type				% Passing 425um	WL*	Correlation Factor	Wp	Ip	Cone type	Sample Preparation	bulk	dry	PD	
			m	m					%	%		%	%			Mg/m3	Mg/m3	Mg/m3	
2631548	Bund 1_B	Not Given	Not Given	Not Given	B	Brownish grey CLAY		26.6											
2631550	Bund 11_B	Not Given	Not Given	Not Given	B	Brownish grey CLAY with fragments of roots		28.5											
2631551	Bund 12_B	Not Given	Not Given	Not Given	B	Brownish grey gravelly CLAY		26.0											
2631549	Bund 7_B	Not Given	Not Given	Not Given	B	Brownish grey CLAY		28.2											
2631552	Bund 18_B	Not Given	Not Given	Not Given	B	Brownish grey CLAY with fragments of roots		27.0											

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Signed:

Dudzińska Anna

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for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

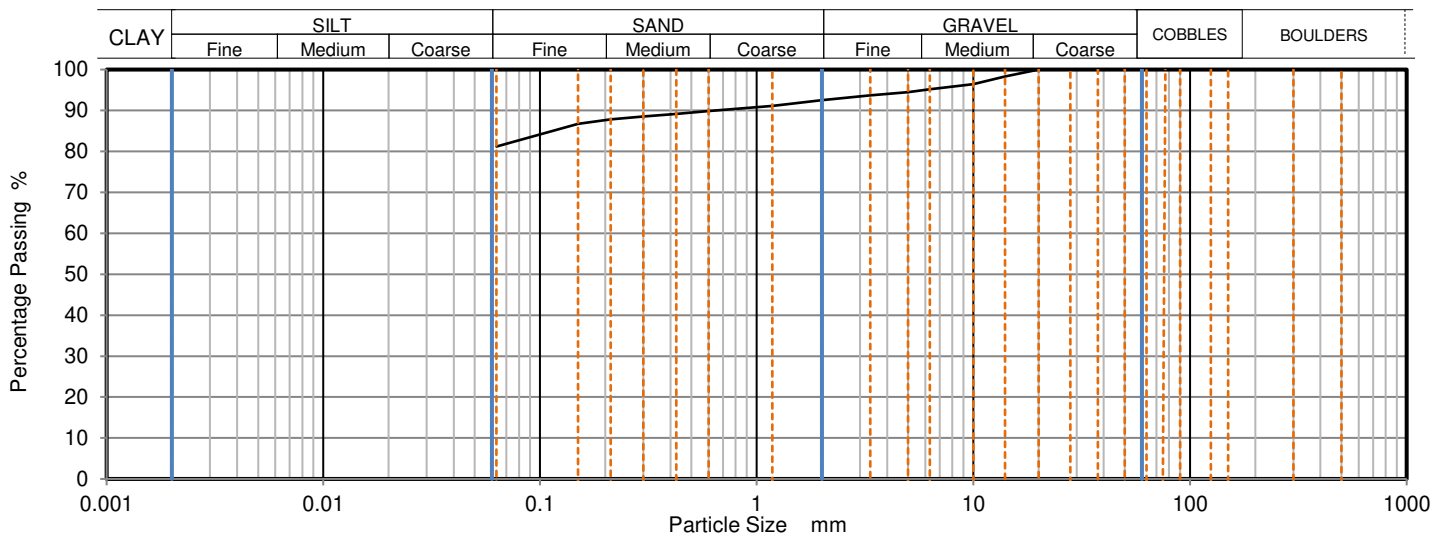
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631548
Hole No.: Bund 1_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY
Sample Preparation: Sample was quartered, oven dried at 106.3 °C and broken down by hand.

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	96		
6.3	95		
5	95		
3.35	94		
2	93		
1.18	91		
0.6	90		
0.425	89		
0.3	89		
0.212	88		
0.15	87		
0.063	81		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	7.00
Sand	12.00
Fines <0.063 mm	81.00

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

Anna Dudzinska

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS EN ISO 17892-4:2016

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

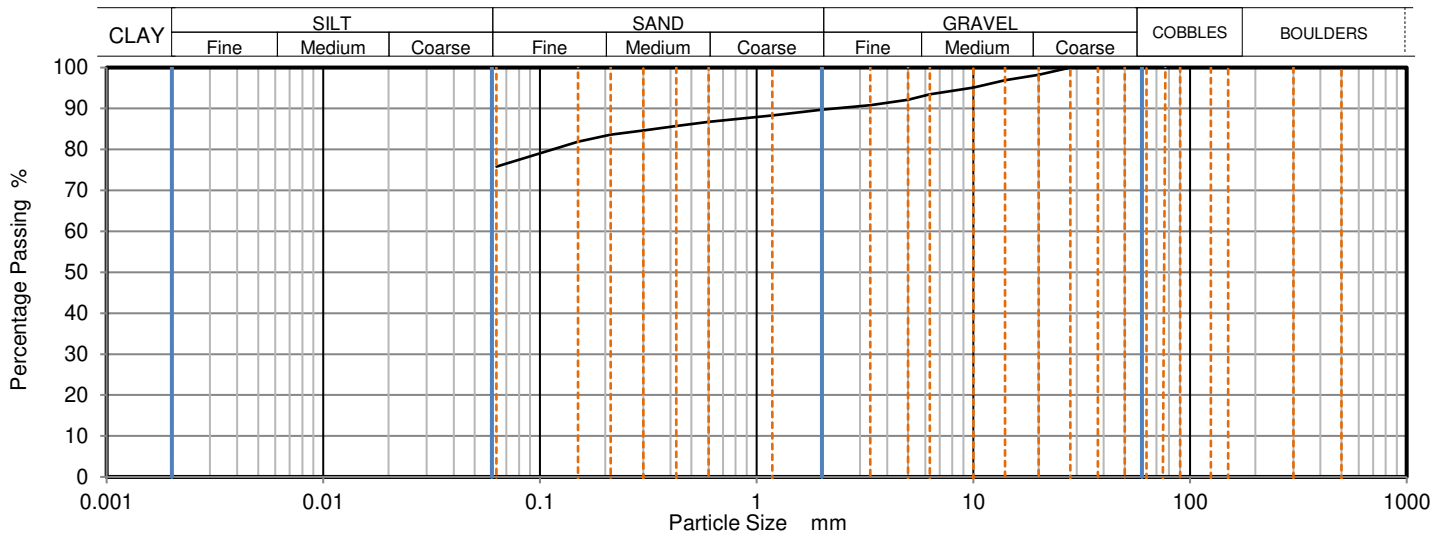
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631549
Hole No.: Bund 7_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY
Sample Preparation: Sample was quartered, oven dried at 106.3 °C and broken down by hand.

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	95		
6.3	94		
5	92		
3.35	91		
2	90		
1.18	88		
0.6	87		
0.425	86		
0.3	85		
0.212	84		
0.15	82		
0.063	76		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	10.00
Sand	14.00
Fines <0.063 mm	76.00

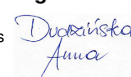
Grading Analysis		
D100	mm	28
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:



Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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Tested in Accordance with: BS EN ISO 17892-4:2016

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

Client: Merebrook
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DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

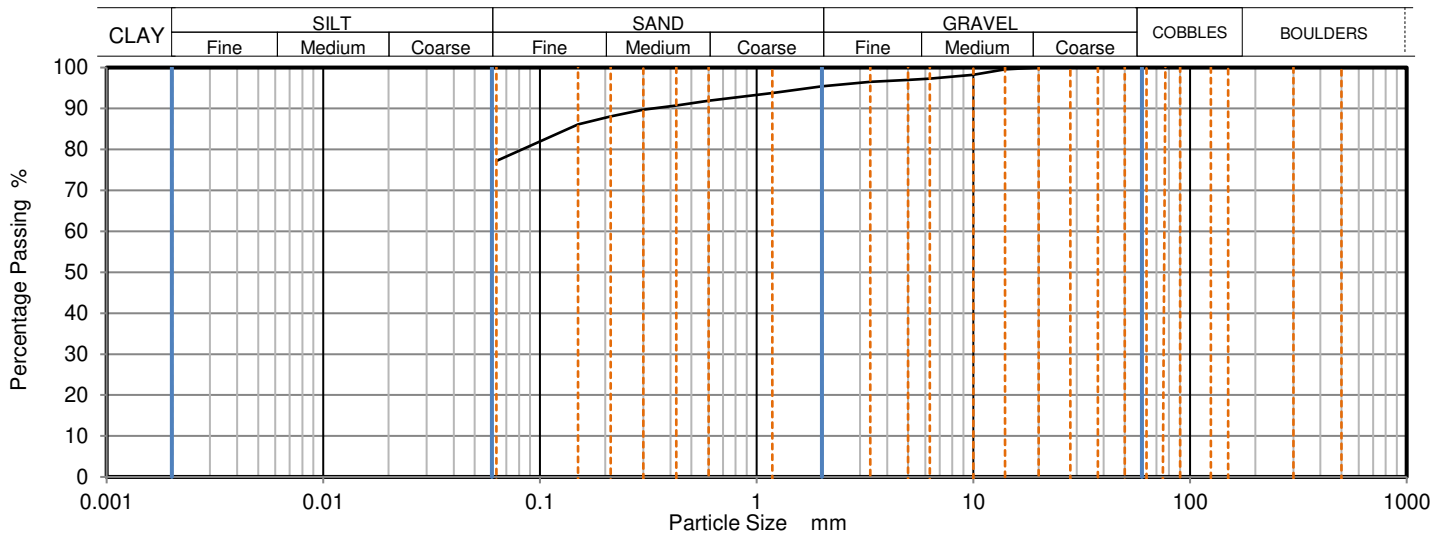
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631550
Hole No.: Bund 11_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY with fragments of roots
Sample Preparation: Sample was quartered, oven dried at 106.3 °C and broken down by hand.

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	98		
6.3	97		
5	97		
3.35	97		
2	95		
1.18	94		
0.6	92		
0.425	91		
0.3	90		
0.212	88		
0.15	86		
0.063	77		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	5.00
Sand	18.00
Fines <0.063 mm	77.00

Grading Analysis		
D100	mm	20
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

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4041

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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Environmental Science

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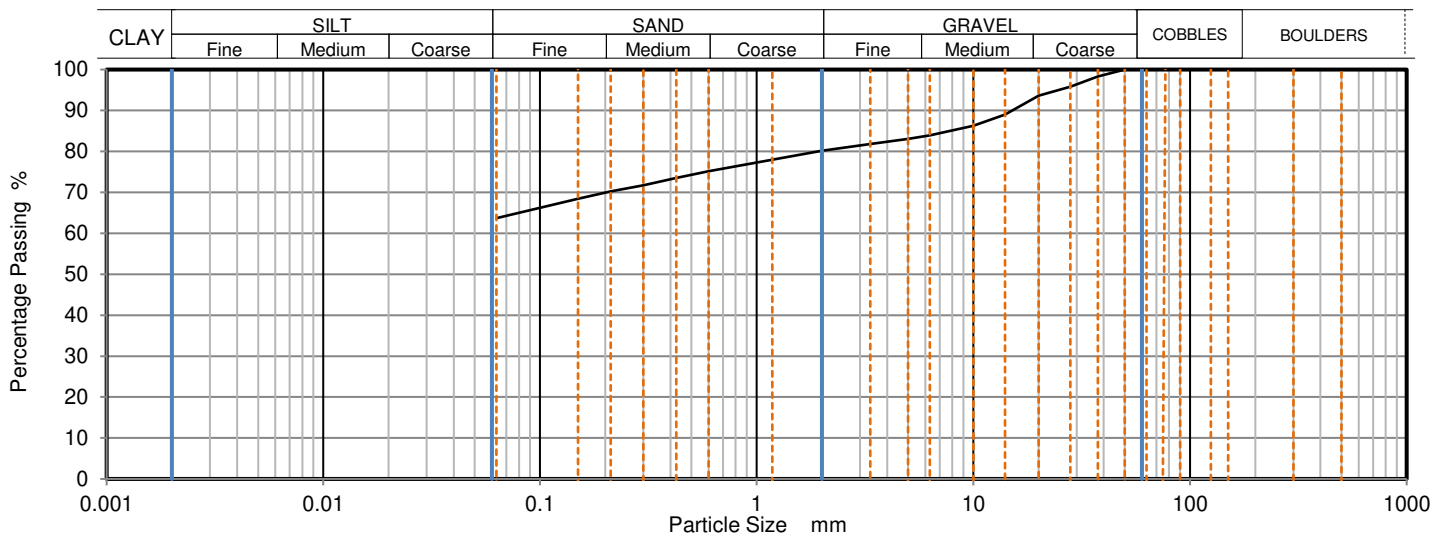
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631551
Hole No.: Bund 12_B
Sample Reference: Not Given
Sample Description: Brownish grey gravelly CLAY
Sample Preparation: Sample was quartered, oven dried at 106.3 °C and broken down by hand.

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	98		
28	96		
20	94		
14	89		
10	86		
6.3	84		
5	83		
3.35	82		
2	80		
1.18	78		
0.6	75		
0.425	74		
0.3	72		
0.212	70		
0.15	68		
0.063	64		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	20.00
Sand	16.00
Fines <0.063 mm	64.00

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:

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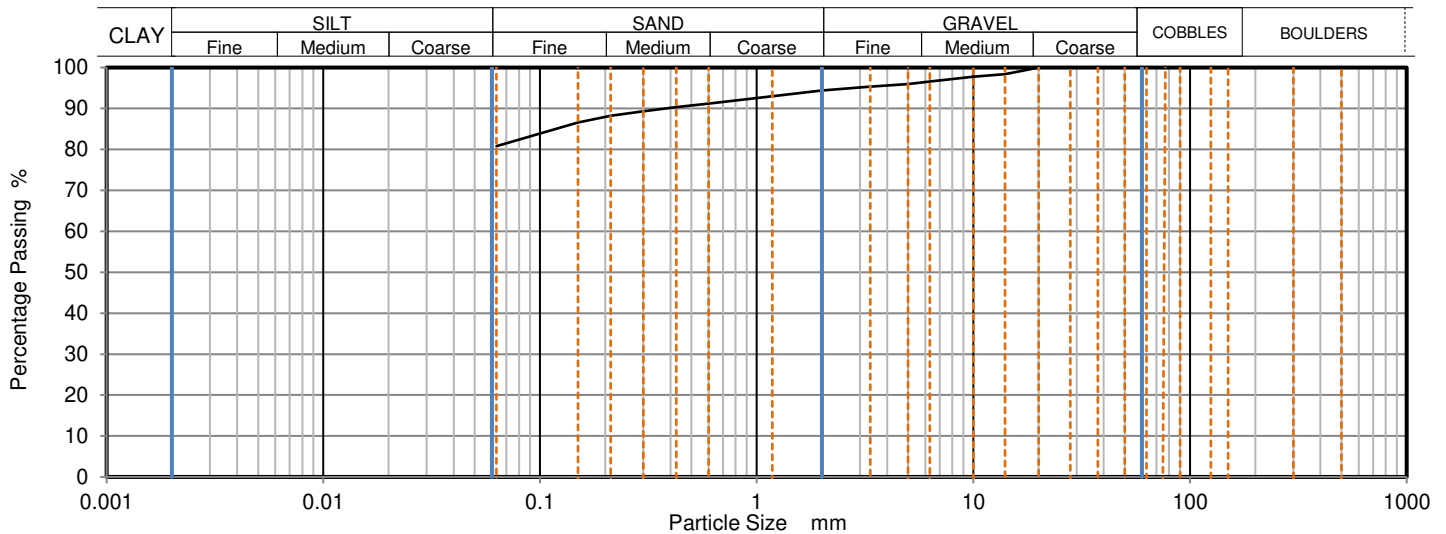
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 03/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631552
Hole No.: Bund 18_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY with fragments of roots
Sample Preparation: Sample was quartered, oven dried at 106.3 °C and broken down by hand.

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	98		
6.3	97		
5	96		
3.35	95		
2	94		
1.18	93		
0.6	91		
0.425	90		
0.3	89		
0.212	88		
0.15	87		
0.063	81		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	6.00
Sand	13.00
Fines <0.063 mm	81.00

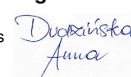
Grading Analysis		
D100	mm	20
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with ISO 17892 -4, by sieving on as received or wet sample

Remarks:

Signed:



Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

LABORATORY REFERENCE DENSITY AND WATER CONTENT - PROCTOR COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS EN 13286-2: 2010

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

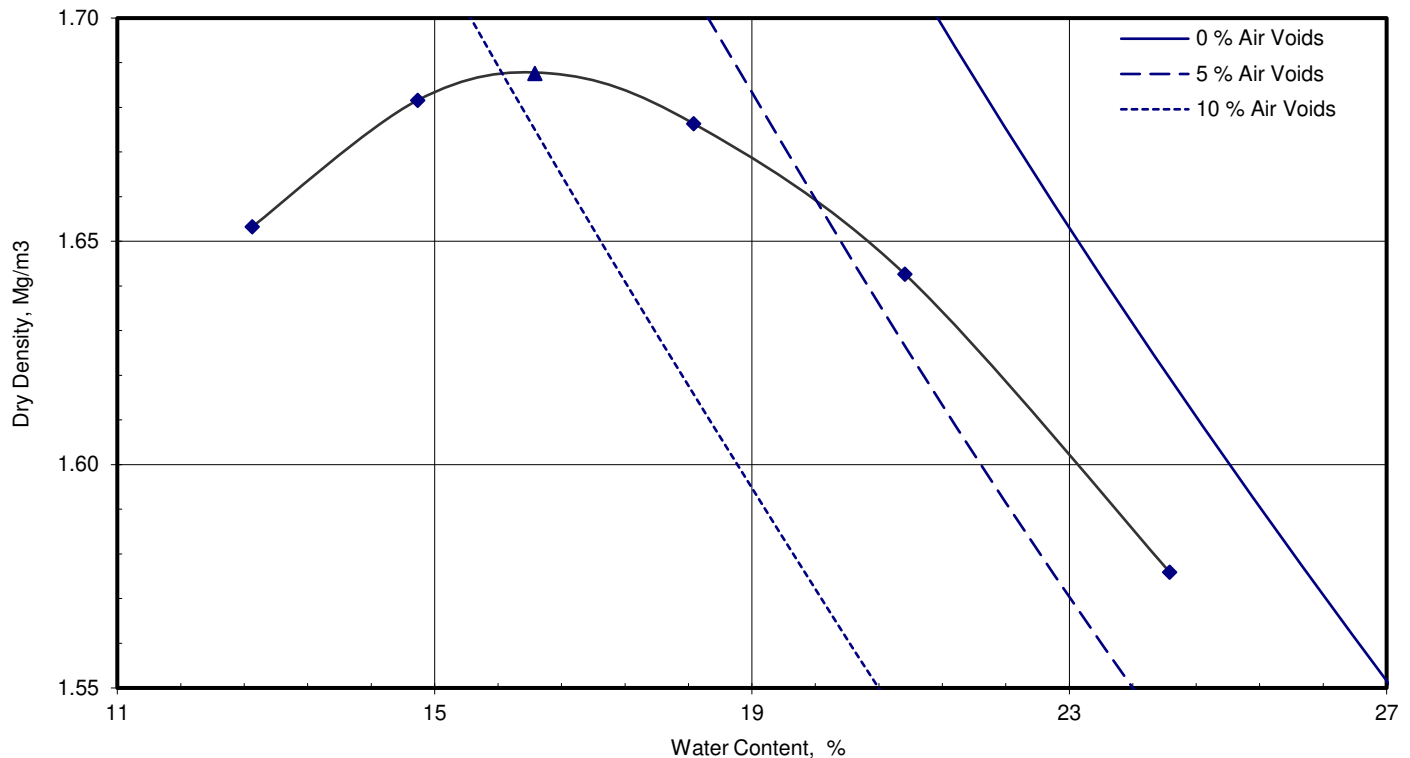
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 06/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631548
Hole No.: Bund 1_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY
Sample Preparation: Material used was natural Single sample tested

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Compaction Point No.	1	2	3	4	5
Water Content %	12.7	14.8	18.3	20.9	24.3
Dry Density Mg/m³	1.65	1.68	1.68	1.64	1.58

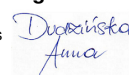
Preparation	Material used was natural	
Mould Type (alternative as per EN13286-2:2010 Annex A)	Proctor B	
Samples Used	Single sample tested	
Material Retained on 63 mm Sieve %	0	
Material Retained on 31.5 mm Sieve %	0	
Material Retained on 16 mm Sieve %	0	
Particle Density - Measured using small pyknometer Mg/m³	2.67	
As received Water Content %	27	
Maximum Dry Density Mg/m³	1.69	

Optimum Water Content %	16
-------------------------	----

Note: Tested in Accordance with: BS EN 13286-2: 2010 using 2.5kg [light] Rammer

Remarks:

Signed:



Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE**LABORATORY REFERENCE DENSITY AND WATER CONTENT - PROCTOR COMPACTION METHOD
USING 2.5 KG RAMMER**

Tested in Accordance with: BS EN 13286-2: 2010

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

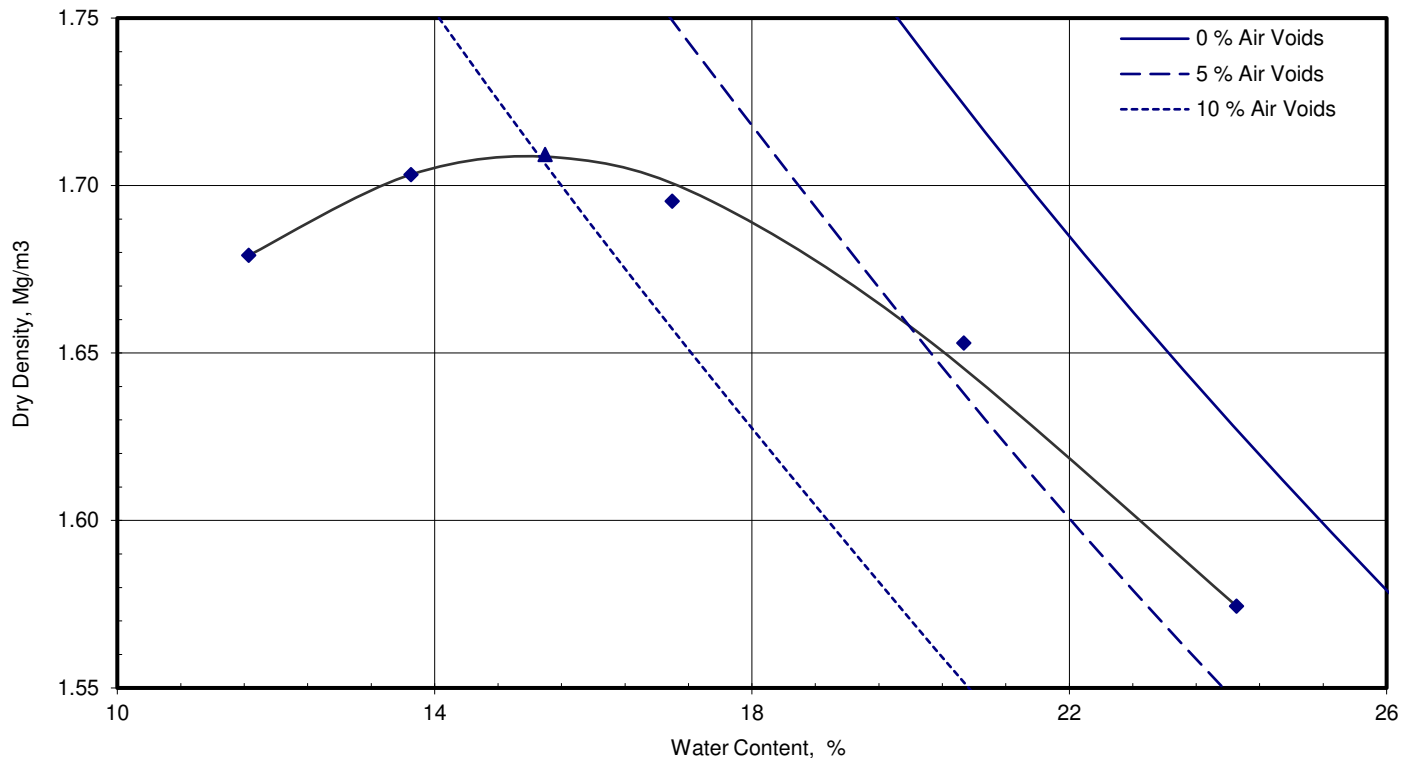
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 06/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631549
Hole No.: Bund 7_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY
Sample Preparation: Material used was natural Single sample tested

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Compaction Point No.		1	2	3	4	5
Water Content	%	11.7	13.7	17.0	20.7	24.1
Dry Density	Mg/m³	1.68	1.70	1.70	1.65	1.57

Preparation	Material used was natural
Mould Type	(alternative as per EN13286-2:2010 Annex A) Proctor B
Samples Used	Single sample tested
Material Retained on 63 mm Sieve	% 0
Material Retained on 31.5 mm Sieve	% 0
Material Retained on 16 mm Sieve	% 0
Particle Density - Measured using small pyknometer	Mg/m³ 2.68
As received Water Content	% 28
Maximum Dry Density	Mg/m³ 1.71

Optimum Water Content	% 15
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Note: Tested in Accordance with: BS EN 13286-2: 2010 using 2.5kg [light] Rammer

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

LABORATORY REFERENCE DENSITY AND WATER CONTENT - PROCTOR COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS EN 13286-2: 2010

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

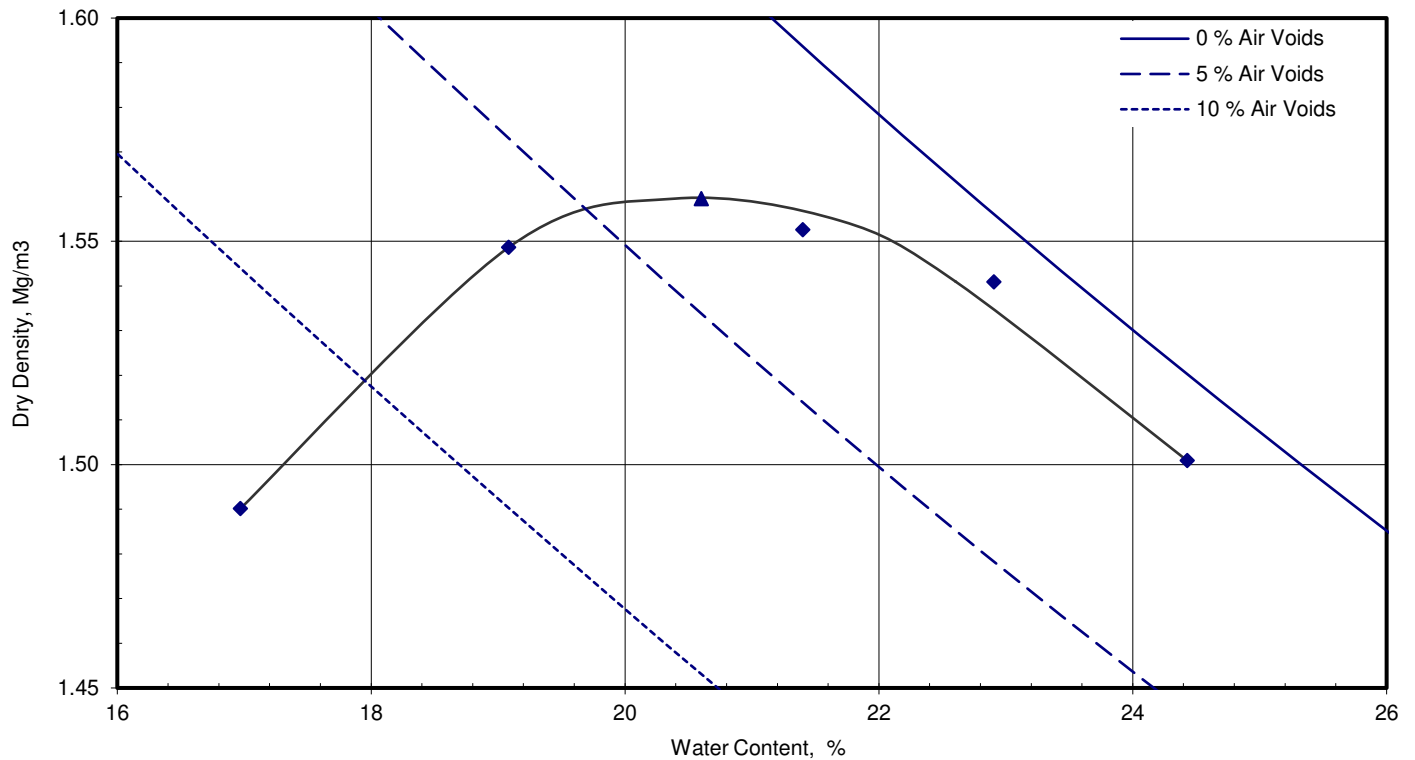
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 07/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631550
Hole No.: Bund 11_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY with fragments of roots
Sample Preparation: Material used was natural Single sample tested

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Compaction Point No.	1	2	3	4	5
Water Content %	17.0	19.1	21.4	22.9	24.4
Dry Density Mg/m³	1.49	1.55	1.55	1.54	1.50

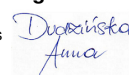
Preparation	Material used was natural
Mould Type (alternative as per EN13286-2:2010 Annex A)	Proctor B
Samples Used	Single sample tested
Material Retained on 63 mm Sieve %	0
Material Retained on 31.5 mm Sieve %	0
Material Retained on 16 mm Sieve %	0
Particle Density - Measured using small pyknometer Mg/m³	2.42
As received Water Content %	28
Maximum Dry Density Mg/m³	1.56

Optimum Water Content %	21
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Note: Tested in Accordance with: BS EN 13286-2: 2010 using 2.5kg [light] Rammer

Remarks:

Signed:



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PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

LABORATORY REFERENCE DENSITY AND WATER CONTENT - PROCTOR COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS EN 13286-2: 2010

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

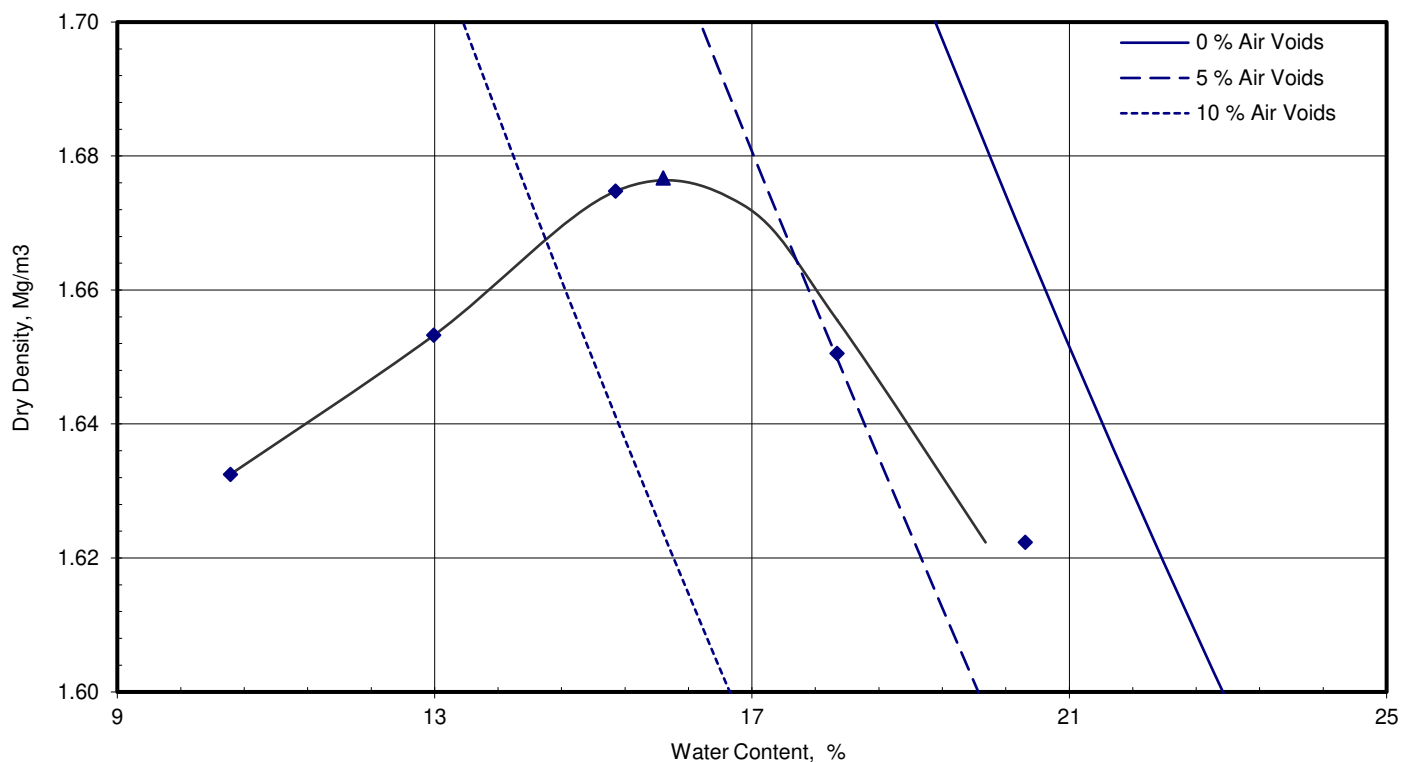
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 07/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631551
Hole No.: Bund 12_B
Sample Reference: Not Given
Sample Description: Brownish grey gravelly CLAY
Sample Preparation: Material used was natural Single sample tested

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Compaction Point No.		1	2	3	4	5
Water Content	%	10.4	13.0	15.3	18.1	20.4
Dry Density	Mg/m³	1.63	1.65	1.67	1.65	1.62

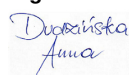
Preparation	Material used was natural	
Mould Type (alternative as per EN13286-2:2010 Annex A)	Proctor B	
Samples Used	Single sample tested	
Material Retained on 63 mm Sieve	%	0
Material Retained on 31.5 mm Sieve	%	0
Material Retained on 16 mm Sieve	%	0
Particle Density - Measured using small pyknometer	Mg/m³	2.53
As received Water Content	%	26
Maximum Dry Density	Mg/m³	1.68

Optimum Water Content	%	16
-----------------------	---	----

Note: Tested in Accordance with: BS EN 13286-2: 2010 using 2.5kg [light] Rammer

Remarks:

Signed:



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PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

LABORATORY REFERENCE DENSITY AND WATER CONTENT - PROCTOR COMPACTION METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS EN 13286-2: 2010

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

Client: Merebrook
Client Address: Cromford Mills, Mill Lane,
Cromford, Derbyshire,
DE4 3RQ
Contact: Matthew Baylis
Site Address: Freeks Road Burgess Hill Phase 2

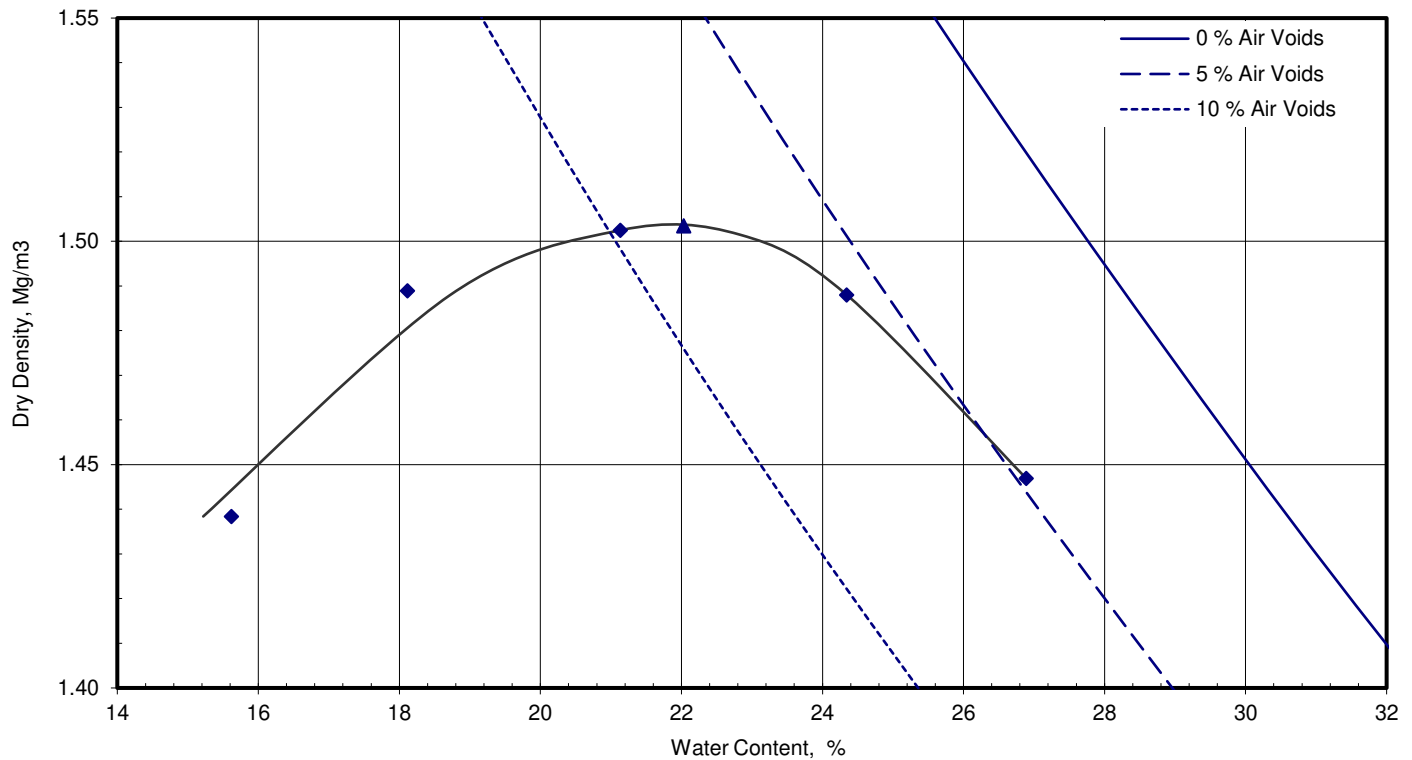
Client Reference: 21949D
Job Number: 23-25301-1
Date Sampled: 22/03/2023
Date Received: 24/03/2023
Date Tested: 06/04/2023
Sampled By: Client - Matthew Baylis

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

Test Results:

Laboratory Reference: 2631552
Hole No.: Bund 18_B
Sample Reference: Not Given
Sample Description: Brownish grey CLAY with fragments of roots
Sample Preparation: Material used was natural Single sample tested

Depth Top [m]: Not Given
Depth Base [m]: Not Given
Sample Type: B



Compaction Point No.	1	2	3	4	5
Water Content %	15.6	18.1	21.1	24.3	26.9
Dry Density Mg/m³	1.44	1.49	1.50	1.49	1.45

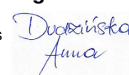
Preparation	Material used was natural	
Mould Type	(alternative as per EN13286-2:2010 Annex A)	Proctor B
Samples Used	Single sample tested	
Material Retained on 63 mm Sieve	%	0
Material Retained on 31.5 mm Sieve	%	0
Material Retained on 16 mm Sieve	%	0
Particle Density - Measured using small pyknometer	Mg/m³	2.57
As received Water Content	%	27
Maximum Dry Density	Mg/m³	1.50

Optimum Water Content	%	22
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Note: Tested in Accordance with: BS EN 13286-2: 2010 using 2.5kg [light] Rammer

Remarks:

Signed:



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