

Re: Northfleet Mill, Northfleet – Ground Investigation to Assist with proposed new Pulp Storage Building

Background

Erda Associates Ltd. were requested by IFP Construction Limited (hereafter referred to as the client) to undertake a ground investigation to assess the risk of potentially contaminated soils and assist with foundation design of proposed new pulp storage building at the site known as *Northfleet Mill, Northfleet*. Site location plans are included in **Appendix A**. The following letter report details our investigation.

Site Works

Erda Associates Ltd. (Erda) were asked to attend the subject site on 20th and 21st March 2025 to undertake the necessary ground investigation works for the subject site. In summary, the scope of site works provided by the client comprised the following;

- The advancing of two cable percussive boreholes to a maximum depth of 8.00mbgl.
- The advancing of five window sample boreholes to a maximum depth of 5.00mbgl.
- Undertaking four CBR tests within the shallow soils to determine reaction to load.
- Chemical screening of selected shallow soils to assess the risk of potential contamination.
- Geotechnical testing of soils to assist with foundation design.
- Waste Acceptance Criteria Testing of one representative sample of the shallow soils.

In addition to the above, a mechanically excavated trial pit (TP01) was also excavated to a maximum depth of 2.90mbgl to investigate the shallow ground conditions. An exploratory hole location plan is enclosed in **Appendix A** and exploratory hole logs are included in **Appendix B**.

Twenty soil samples were retrieved and sent for analysis at a UKAS/MCERTS accredited laboratory. Twelve shallow soil samples were screened for heavy metals, PAHs, asbestos, PCBs, TPH, VOC/SVOC, water-soluble sulphate and pH. Seven soil samples were tested for geotechnical parameters (plasticity index and quick undrained triaxial testing). A representative sample was also screened for Waste Acceptance Criteria. The laboratory test results are included in **Appendix C**.

Ground Conditions

The investigation has identified that the site is predominantly underlain by made ground over natural chalk deposits.

Made ground was encountered across the site and generally comprised light grey mottled white sandy gravelly clay which extended to a depths of 0.50m and 4.50mbgl.

The made ground was recorded to be immediately underlain by white structureless chalk (recovered as a sandy gravelly clay) in all boreholes. The full depth of the chalk is not known; however, it was noted to extend to depths of at least 10.00mbgl. These deposits are considered to be representative of the Lewes Nodular Chalk Formation that is recorded to underlie the site.

Groundwater was consistently encountered in all window sample boreholes at depths of between 3.00m and 4.00mbgl. This is considered to be representative of a shallow underlying groundwater table. A softening of the natural chalk strata was also occasionally noted in conjunction with the presence of groundwater strike.

Contamination Assessment

Tier 1 Assessment Criteria for human health with regard to contamination within soils have been produced with reference to values published in LQM/CIEH S4UL and DEFRA's C4SLs. The Tier 1 Assessment Criteria are contained in **Appendix D**. The laboratory analysis results were reviewed against the assessment criteria for a commercial/industrial end use (considered to be the most relevant scenario). A SOM of 1.0% has been adopted for the PAH analysis.

An assessment of the analysis results for metals and inorganics contained in **Appendix C**, revealed that the majority of the samples do not exceed the respective GAC for a commercial/industrial end use. However, a marginally elevated concentration of Dibenz(a,h)anthracene has been detected in the shallow made ground in WS05. Therefore, remediation to protect future end users of the site will be required in the vicinity of WS05. At this stage, it is considered likely that the site will be capped with hardstanding (e.g. a concrete floor slab or external hardstanding). The presence of hardstanding is considered sufficient to break the source-pathway-receptor linkage to future end users of the site, and further remediation would not be required in this instance. However, if this area is not capped with hardstanding, then it is recommended that localised excavation and removal of the contaminated soils in the vicinity of WS05 is undertaken.

An assessment with regard to TPH, PCBs and VOC/SVOCs has not identified any significantly elevated concentrations. As such the risk of these is considered to be within acceptable levels and no further remediation in this regard is considered to be required.

Asbestos has also not been detected in any of the shallow soil samples. Therefore, the risk of this is considered to be very low.

Ground gas monitoring or assessment did not form part of the scope of the investigation works. Therefore, no assessment with regard to potential ground gas risk has been undertaken. At this stage, it may be prudent to allow for the installation of Characteristic Situation 2 ground gas protection measures within the proposed building as a precaution.

Waste Acceptance Criteria (WAC) Testing

One selected sample of the shallow soil was sent for WAC analysis at a UKAS/MCERTS accredited laboratory. A copy of the WAC test result is included in **Appendix C**, for reference.

The preceding chemical analysis and WAC testing has indicated that the shallow soils may be classified as non-hazardous for disposal. It is recommended that waste classification assessment is confirmed with the chosen waste handler/operator should off-site disposal of waste soils be required. It is likely that a full assessment in accordance with WM3 will need to be undertaken by the waste handler in order to confirm the material classification.

Geotechnical Testing

Geotechnical testing of the chalk has illustrated that this is predominantly of a cohesive composition. Please note that this could be due to disturbance of the chalk during drilling/excavation techniques. Plasticity Index testing has returned plasticity index values of between 15% and 25% for the chalk indicating it is of a low to medium volume change potential. Therefore, it is recommended that a medium volume change potential is assumed for the chalk across the site as a maximum, worst-case, precaution.

In addition, quick undrained triaxial testing on one representative sample of the chalk has returned a shear strength of 45kPa for this stratum.

Water Soluble Sulphate and pH analysis revealed results of <10-240mg/ISO₄ and 8.7-9.1, respectively. Based on the recorded water-soluble sulphate concentrations and pH values it is considered appropriate to adopt a Basic Design Sulphate Class of DS-1, together with an Aggressive Chemical Environment Concrete (ACEC) of AC-1.

Geotechnical test results detailing all of the above are contained in **Appendix C**, for reference.

Foundation Design

At this stage, loadings of the proposed structure have not been provided. However, due to the presence of localised deep made ground in some areas and occasional soft horizons within the chalk, it would be prudent

to adopt a piled foundation design at this stage. A piling specialist will need to be approached to provide suitable piling methods, dimensions and safe pile capacities. It is considered that the piles would need to end bear and should be progressed to create a suitable rock socket.

Alternatively, a raft foundation may be suitable for the site, providing that it is deepened through any localised made ground by means of granular fill and designed to span localised soft spots within the chalk. Further performance testing at of any placed granular fill should also be undertaken to confirm it is of a suitable consistency for the proposed loadings. The raft should also be suitably reinforced to account for potential long term settlement which may occur due to soft spots/varying thickness of granular fill.

No significant trees or vegetation were noted either on site or in close proximity. Therefore, deepening of foundations to account for tree influence in accordance with NHBC Guidance Chapter 4.2 – Building Near Trees, or similar, should not be required. Please note that some limited deepening to account for seasonal desiccation may be required.

Please also note that there is a potential risk of dissolution features within the underlying chalk. No significant dissolution features have been identified during the ground investigation works. However, localised soft spots within the chalk could be potential evidence of this. In addition, there is also a risk that dissolution features may also be present elsewhere on site (e.g. between exploratory hole positions or at deeper depths). Therefore, it is recommended that the potential presence of dissolution features is mitigated for during design.

CBR Testing

A total of four CBR tests were undertaken at positions specified by the client during the investigation works. The testing was targeted at a maximum depth of 0.50mbgl, within the shallow made ground that is present across the site.

A maximum of five loading increments were undertaken at each test location with the resulting settlement measures recorded. The results of the testing is contained in **Appendix F**, for reference.

Conclusion and Recommendations

Slightly elevated Dibenz(a,h)anthracene has been detected in the shallow made ground in WS05. It is considered that this material should be either excavated and removed off site, or capped with proposed hardstanding to protect future end users of the site. No other significant contamination has been identified. Please note that a ground gas risk assessment or monitoring has not been undertaken as part of these works.

A piled foundation design is considered the most appropriate foundation solution at this stage. A raft foundation may also be suitable, but may require further assessment. All foundation design should consider the potential for dissolution features, soft spots and localised deep made ground to be present beneath the site.

We trust the above is sufficient for your requirements. However, should you have any queries, or require any further information, please do not hesitate to contact us.

Encl.

Appendix A – Site Plans

Appendix B – Exploratory Hole Logs

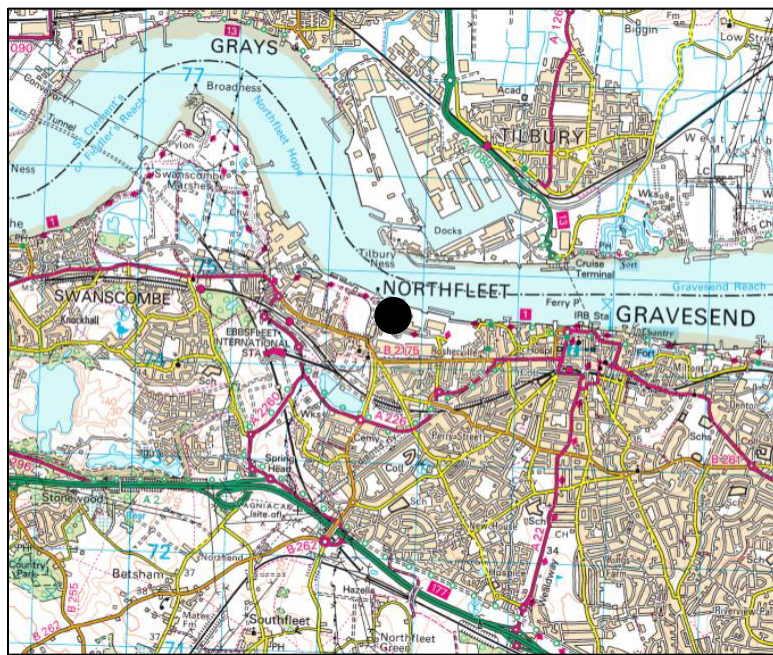
Appendix C – Chemical & Geotechnical Analysis Results

Appendix D – Erda Associates Tier 1 GACs and Methodology

Appendix E – CBR Test Results

Appendix A





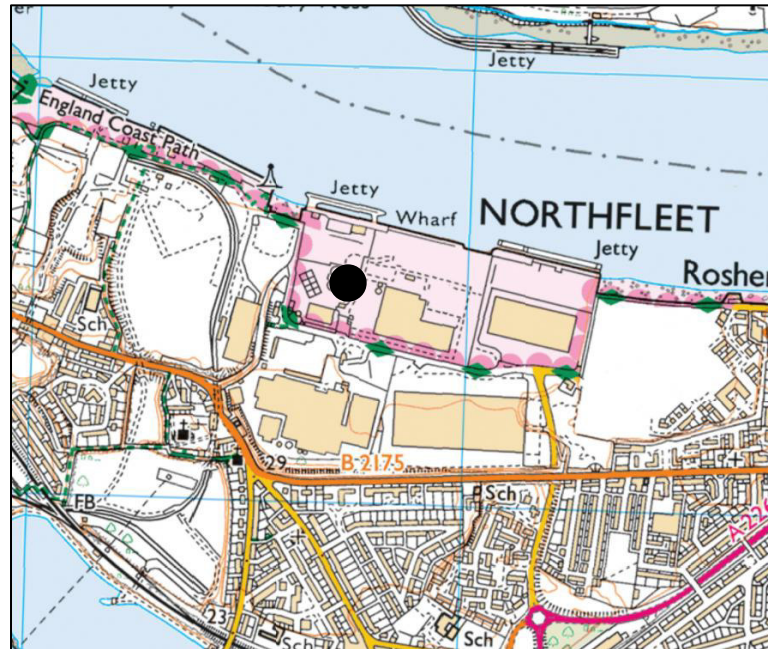
KEY:

● Approximate Site Location

Site Address:

Kimberly-Clark Limited
Northfleet Mill
Crete Hall Rd
Northfleet
Gravesend
DA11 9AD

DO NOT SCALE



TITLE:

Site Location Plan

PROJECT:

Northfleet Mill, Northfleet

PROJECT No:

EAL.403.24

DATE:

04/2025

SCALE :

NTS

DRAWN :

PD

DWG No:

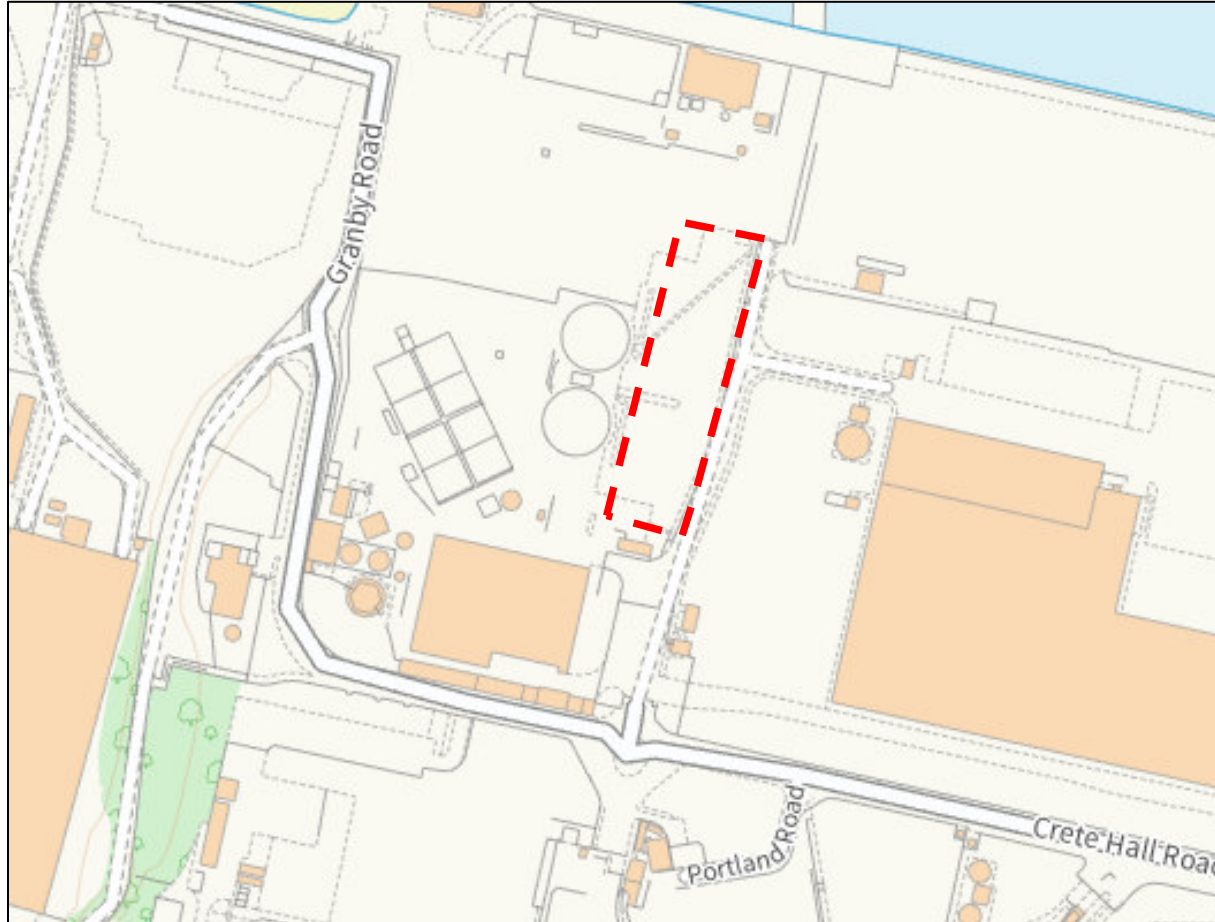
Figure 1



KEY:



Investigation Area



DO NOT SCALE



TITLE:

Site Layout

PROJECT:

Northfleet Mill, Northfleet

PROJECT No:

EAL.403.24

DATE:

04/2025

SCALE :

NTS

DRAWN :

PD

DWG No:

Figure 2



KEY:



CP Borehole



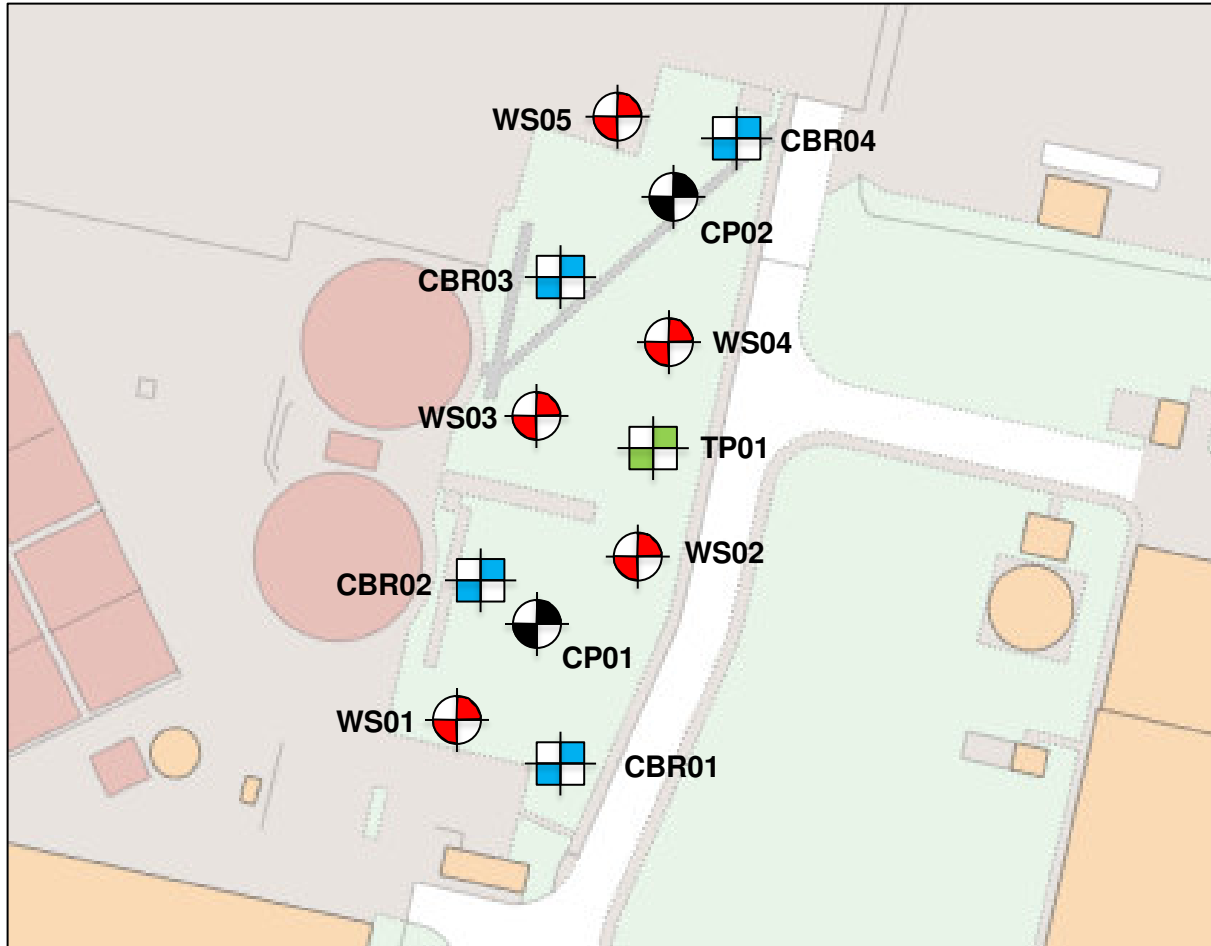
WS Borehole



CBR Test



Trial Pit



TITLE:

Exploratory Hole Location Plan

PROJECT:

Northfleet Mill, Northfleet

PROJECT No:

EAL.403.24

DATE:

04/2025

SCALE :

NTS

DRAWN :

PD

DWG No:

Figure 3

Appendix B



erda Associates Ltd				Trial Pit TP01 Sheet 1 of 1					
Hole Type TP		Easting		Northing		Ground Level (m)		Scale 1:25	
Project Name Northfleet Mill				Project No. EAL.403.24		Start Date 20.03.2025		End Date 20.03.2025	
Client IFP Construction Limited				Consultant PD		Contractor			
Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
		0.20	ES			(0.30)		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]	
		1.30	ES			(0.30)		MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-angular to angular chalk, brick and flint. Occasional hin bands of black ashy gravelly sand with clinker. [MADE GROUND]	
						2.30	D	(1.40)	
(1.20)									
						2.90		End of Trial Pit at 2.90m	
Remarks								Method, Plant, Stability, Dimensions 0.00 - 2.90m TP JCB 3CX Minor sidewall collapse from 2.00mbgl	
Checked By: PD Approved By: PD Status: FINAL								Logger PD	



Dynamic (Windowless) Sampler

WS01

Sheet 1 of 1

Hole Type WLS	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24		Start Date 20.03.2025	End Date 20.03.2025

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
		0.30	ES			(0.20) 0.20		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]	0.5
		0.80	D					MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-angular to angular chalk, brick and flint. [MADE GROUND]	1.0
		1.00	SPT(C)	N=8 (1,1/2,2,2,2)					1.5
		2.00	SPT(C)	N=12 (2,2/3,3,3,3)					2.0
		3.00	SPT(C)	N=13 (3,4/3,4,3,3)		(4.30)			2.5
		4.00	SPT(C)	N=4 (2,1/1,1,1,1)				... groundwater encountered from 3.70mbgl. (3.70m) ... becoming very soft from 3.70mbgl. (3.70 - 4.50m)	3.5
		4.50				4.50		Stiff white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]	4.5
		5.00	SPT(C)	N=25 (5,5/6,7,6,6)		(0.50) 5.00			5.0
End of Borehole at 5.00m									5.0
									5.5
									6.0
									6.5
									7.0
									7.5
									8.0
									8.5
									9.0
									9.5
									10.0

Remarks	Method, Plant, Stability, Dimensions 0.00 - 5.00m Stable	WLS Terrier Rig	Logger PD
Checked By: PD Approved By: PD Status: FINAL			



Dynamic (Windowless) Sampler

WS02

Sheet 1 of 1

Hole Type WLS	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24	Start Date 20.03.2025	End Date 20.03.2025	

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata	
		Depth (m)	Type/ Ref	Results			Legend	Description
		0.40	ES			(0.20) 0.20 (0.30) 0.50		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]
		0.90 1.00 1.20	ES SPT(C) D	N=8 (1,1/2,2,2,2)				MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-angular to angular chalk, brick and flint. [MADE GROUND]
								Firm white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]
		2.00	SPT(C)	N=14 (2,2/3,3,4,4)				
		3.00	SPT(C)	N=24 (4,5/5,6,9,4)		(4.50)		... becoming stiff from 3.00mbgl. (3.00m)
		4.00	SPT(C)	N=25 (5,5/6,6,7,6)				... groundwater encountered from 4.00mbgl. (4.00m)
		5.00	SPT(C)	N=50 for 225mm (5,9/20,25,5,0 for 0mm)		5.00		End of Borehole at 5.00m

Remarks	Method, Plant, Stability, Dimensions 0.00 - 5.00m Stable WLS Terrier Rig	Logger PD
Checked By: PD Approved By: PD Status: FINAL		



Dynamic (Windowless) Sampler

WS03

Sheet 1 of 1

Hole Type WLS	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24		Start Date 20.03.2025	End Date 20.03.2025

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata	
		Depth (m)	Type/ Ref	Results			Legend	Description
		0.30	ES			(0.20) 0.20		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]
		0.70	D					MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-rounded to sub-angular chalk, brick and flint. [MADE GROUND]
		1.00	SPT(C)	N=7 (1,2/2,1,2,2)		(2.30)		
		2.00	SPT(C)	N=8 (2,2/2,2,2,2)				
		2.50						
		3.00	SPT(C)	N=6 (2,2/1,1,2,2)				Soft white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]
								... groundwater encountered from 3.00mbgl. (3.00m)
		4.00	SPT(C)	N=24 (3,5/5,6,6,7)		(2.50)		... becoming stiff from 4.00mbgl. (4.00m)
		5.00	SPT(C)	N=50 for 150mm (7,25/25,25,0 for 0mm)		5.00		End of Borehole at 5.00m

Remarks	Method, Plant, Stability, Dimensions 0.00 - 5.00m Stable WLS Terrier Rig	Logger PD
Checked By: PD Approved By: PD Status: FINAL		



Dynamic (Windowless) Sampler

WS05

Sheet 1 of 1

Hole Type WLS	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24		Start Date 20.03.2025	End Date 20.03.2025

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
		0.10	ES			(0.50)		MADE GROUND comprising black slightly ashy gravelly sand. Gravel is fine to coarse rounded to angular flint, concrete and quartzite. [MADE GROUND]	
		0.70	D			0.50		MADE GROUND comprising dark grey gravelly clay. Gravel is fine to coarse sub-angular to angular chalk. Reworked natural. [MADE GROUND]	0.5
		1.00	SPT(C)	N=5 (1,2/2,1,1,1)		(0.70)			1.0
		1.30	ES			1.20		Firm white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]	1.5
		1.50	D						
		2.00	SPT(C)	N=12 (2,2/3,3,3,3)					2.0
									2.5
		3.00	SPT(C)	N=16 (3,3/4,4,4,4)		(3.80)		... becoming stiff from 3.00mbgl. (3.00m)	3.0
									3.5
		4.00	SPT(C)	N=16 (2,2/4,4,4,4)				... groundwater encountered from 4.00mbgl. (4.00m)	4.0
									4.5
		5.00	SPT(C)	N=50 for 225mm (6,5/16,25,9,0 for 0mm)		5.00		End of Borehole at 5.00m	5.0
									5.5
									6.0
									6.5
									7.0
									7.5
									8.0
									8.5
									9.0
									9.5
									10.0

Remarks	Method, Plant, Stability, Dimensions 0.00 - 5.00m Stable	WLS Terrier Rig	Logger PD
	Checked By: PD Approved By: PD Status: FINAL		



Cable Percussion Log

CP01

Sheet 1 of 1

Hole Type CP	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24	Start Date 21.03.2025	End Date 21.03.2025	

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.20) 0.20		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]	0.5
		0.70	ES			(1.10)		MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-angular to angular chalk, brick and flint. Occasional hin bands of black ashy gravelly sand with clinker. [MADE GROUND]	1.0
		1.20	SPT(C)	N=7 (1,1/1,2,2,2)		1.30		Firm white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]	1.5
		2.00	SPT(C)	N=8 (1,2/2,2,2,2)					2.0
		3.00	SPT(C)	N=8 (2,2/2,2,2,2)					3.0
		4.00	SPT(C)	N=5 (1,1/1,1,1,2)				... groundwater encountered from 4.00mbgl. (4.00m) ... becoming soft from 4.00m to 5.00mbgl. (4.00 - 5.00m)	4.0
		5.00-5.45	U						5.0
		6.00	ES			(8.70)			5.5
		6.50	SPT(C)	N=24 (4,4/6,6,5,7)				... becoming stiff from 6.50mbgl. (6.50m)	6.0
		8.00 8.00	SPT(C) D	N=33 (6,7/7,9,9,8)					6.5
		9.00	D						7.0
		9.50	SPT(C)	N=53 (8,9/12,14,14,13)					7.5
						10.00			8.0
								End of Borehole at 10.00m	8.5
									9.0
									9.5
									10.0

Remarks	Method, Plant, Stability, Dimensions 0.00 - 10.00m CP Dando 2000 Stable	Logger PD
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Checked By: PD Approved By: PD Status: FINAL
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Cable Percussion Log

CP02

Sheet 1 of 1

Hole Type CP	Easting	Northing	Ground Level (m)	Scale 1:50
Project Name Northfleet Mill	Project No. EAL.403.24	Start Date 21.03.2025	End Date 21.03.2025	

Client IFP Construction Limited	Consultant PD	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.20) 0.20		MADE GROUND comprising brown slightly clayey slightly gravelly sandy reworked topsoil. Gravel is fine to coarse sub-rounded to sub-angular chalk. [MADE GROUND]	0.5
						(0.90)		MADE GROUND comprising light grey mottled white sandy gravelly clay. Gravel is fine to coarse sub-angular to angular chalk, brick and flint. [MADE GROUND]	1.0
		1.20	SPT(C)	N=7 (1,1/1,2,2,2)		1.10		Soft white structureless CHALK. Recovered as sandy gravelly clay. [Lewes Nodular Chalk Formation]	1.5
		1.50	D						
		2.00	SPT(C)	N=8 (2,2/2,2,2,2)				... becoming firm from 2.00mbgl. (2.00m)	2.0
		3.00	SPT(C)	N=10 (2,3/3,3,2,2)					3.0
		4.00	SPT(C)	N=22 (2,4/6,6,6,4)				... groundwater encountered from 4.00mbgl. (4.00m) ... becoming stiff from 4.00mbgl. (4.00m)	4.0
		4.70	ES						4.5
		5.00-5.45	U						5.0
		6.50 6.50	SPT(C) D	N=25 (3,3/4,7,7,7)		(8.90)			5.5
		8.00	SPT(C)	N=31 (6,6/6,7,9,9)					6.0
									6.5
									7.0
									7.5
		9.50	SPT(C)	N=51 (7,5/5,13,16,17)					8.0
						10.00		End of Borehole at 10.00m	10.0

Remarks	Method, Plant, Stability, Dimensions 0.00 - 10.00m CP Dando 2000 Stable	Logger PD
	Checked By: PD Approved By: PD Status: FINAL	

Appendix C





4161



Erda Associates Ltd
102 Scalpcliffe Road
DE15 9AB



7 - 11 Harding Street
Leicester
LE1 4DH

Analytical Test Report: P25/00160/ERD - 25-60779

Your Project Reference:	Northfleet EAL.403.24		
Your Order Number:	EAL.403.24	Samples Received / Instructed:	25/03/2025 / 25/03/2025
Report Issue Number:	1	Sample Tested:	25/03 to 03/04/2025
Samples Analysed:	13 sample(s)	Report issued:	03/04/2025

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with CTS method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

Asbestos

Please note: Where further analysis is required samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accreditation

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

WAC Testing

Samples were leached to our inhouse method statement in accordance with BS EN 12457-3: 2002.

Eluate Results are reported as the cumulative release at L/S 10 from eluates of L/S 2 and L/S 8. These results have been calculated to report in accordance with BS EN 12457-3:2002.

Comparative values are taken from the Council Decision Annex - CRITERIA AND PROCEDURES FOR THE ACCEPTANCE OF WASTE AT LANDFILLS, (2003/33/EC).

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

This report shall not be reproduced except in full

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited, subUKAS - Subcontracted to a laboratory UKAS accredited for this test, subMCERTS - Subcontracted to a laboratory MCERTS accredited for this test

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

UKAS accreditation on waters only covers the Ground water and Surface water matrices

Date of Issue: 12.03.25

Issued by: J. Gane

Issue No: 4

Rev No: 26



P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL403.24

7 - 11 Harding Street
Leicester
LE1 4DH

Analytical Test Results - Solid

Lab Reference			475354	475355	475356	475357	475358	475359	475361
Client Sample ID			WS01	WS02	WS03	WS04	WS05	TP01	CP01
Client Sample Location			WS01	WS02	WS03	WS04	WS05	TP01	CP01
Client Sample Type			ES	ES	ES	ES	ES	ES	ES
Client Sample Number			-	-	-	-	-	-	-
Depth - Top (m)			0.30	0.90	0.30	0.50	0.10	0.20	6.00
Depth - Bottom (m)			0.30	0.90	0.30	0.50	0.10	0.20	6.00
Date of Sampling			21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025
Time of Sampling			-	-	-	-	-	-	-
Sample Matrix			Sand	Other	Sand	Sand	Sand	Sand	Other
Determinant	Units	Accreditation							
Arsenic	(mg/kg)	MCERTS	14	< 10	< 10	< 10	16	12	< 10
Boron (w/s)	(mg/kg)	u	-	< 2.5	-	< 2.5	< 2.5	< 2.5	< 2.5
Cadmium	(mg/kg)	MCERTS	0.9	< 0.2	0.6	0.5	1.0	0.8	0.2
Chromium (Total)	(mg/kg)	UKAS	9.0	< 1.0	6.8	4.1	13	9.3	< 1.0
Copper	(mg/kg)	MCERTS	67	13	41	43	99	28	13
Lead	(mg/kg)	MCERTS	220	3.8	120	120	120	64	2.4
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	28	2.0	15	12	75	14	2.3
Selenium	(mg/kg)	u	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
Vanadium	(mg/kg)	UKAS	59	-	27	-	-	-	-
Zinc	(mg/kg)	MCERTS	120	11	99	82	100	48	10
Total Phenols	(mg/kg)	MCERTS	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
Cyanide (Total)	(mg/kg)	MCERTS	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	-	< 1.0	-	-	-	-
Sulphate (Acid Soluble)	(%)	u	0.09	-	0.12	-	-	-	-
pH	pH Units	MCERTS	8.8	-	8.7	-	-	-	-
Sulphate (Water soluble as SO ₄)	(mg/l)	u	81	240	63	120	51	< 10	63
Acenaphthene	(mg/kg)	MCERTS	< 0.20	< 0.02	< 0.20	< 0.20	1.6	< 0.02	< 0.02
Acenaphthylene	(mg/kg)	UKAS	< 0.20	< 0.02	0.28	< 0.20	2.3	< 0.02	< 0.02
Anthracene	(mg/kg)	UKAS	< 0.20	< 0.02	0.74	0.36	8.1	< 0.02	< 0.02
Benzo (a) anthracene	(mg/kg)	MCERTS	0.38	< 0.02	2.3	1.3	21	0.09	< 0.02
Benzo (a) pyrene	(mg/kg)	MCERTS	0.45	< 0.02	2.6	1.6	26	0.11	< 0.02
Benzo (b) fluoranthene	(mg/kg)	MCERTS	0.47	< 0.02	3.1	2.0	31	0.13	< 0.02
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	0.35	< 0.02	2.1	1.2	20	0.09	< 0.02
Benzo (k) fluoranthene	(mg/kg)	MCERTS	< 0.20	< 0.02	1.3	0.77	12	0.05	< 0.02
Chrysene	(mg/kg)	MCERTS	0.36	< 0.02	2.3	1.5	19	0.09	< 0.02
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	< 0.20	< 0.02	0.40	0.27	3.9	< 0.02	< 0.02
Fluoranthene	(mg/kg)	MCERTS	0.65	< 0.02	5.4	3.0	45	0.16	< 0.02
Fluorene	(mg/kg)	MCERTS	< 0.20	< 0.02	< 0.20	< 0.20	1.5	< 0.02	< 0.02
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	MCERTS	0.25	< 0.02	1.8	1.0	17	0.06	< 0.02
Naphthalene	(mg/kg)	MCERTS	< 0.20	< 0.02	< 0.20	< 0.20	0.29	< 0.02	< 0.02
Phenanthrene	(mg/kg)	MCERTS	0.31	< 0.02	1.9	1.1	20	0.04	< 0.02
Pyrene	(mg/kg)	MCERTS	0.60	< 0.02	4.6	2.6	40	0.19	< 0.02
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	5.4	< 0.32	29	18	270	1.2	< 0.32
SOM (via TOC)	(%)	UKAS	5.1	< 0.9	4.2	3.3	24	8.6	< 0.9
Asbestos	-	UKAS	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
PCB 28	(mg/kg)	MCERTS	-	-	-	< 0.004	< 0.040	-	< 0.004
PCB 52	(mg/kg)	MCERTS	-	-	-	< 0.004	< 0.040	-	< 0.004
PCB 101	(mg/kg)	MCERTS	-	-	-	< 0.004	< 0.040	-	< 0.004
PCB 118	(mg/kg)	MCERTS	-	-	-	< 0.004	< 0.040	-	< 0.004
PCB 153	(mg/kg)	MCERTS	-	-	-	< 0.004	< 0.040	-	< 0.004



P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

7 - 11 Harding Street
Leicester
LE1 4DH

Analytical Test Results - Solid

Lab Reference			475354	475355	475356	475357	475358	475359	475361
Client Sample ID			WS01	WS02	WS03	WS04	WS05	TP01	CP01
Client Sample Location			WS01	WS02	WS03	WS04	WS05	TP01	CP01
Client Sample Type			ES	ES	ES	ES	ES	ES	ES
Client Sample Number			-	-	-	-	-	-	-
Depth - Top (m)			0.30	0.90	0.30	0.50	0.10	0.20	6.00
Depth - Bottom (m)			0.30	0.90	0.30	0.50	0.10	0.20	6.00
Date of Sampling			21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025
Time of Sampling			-	-	-	-	-	-	-
Sample Matrix			Sand	Other	Sand	Sand	Sand	Sand	Other
Determinant	Units	Accreditation							
PCB 138	(mg/kg)	MCERTS	-	-	-	0.008	< 0.040	-	< 0.004
PCB 180	(mg/kg)	MCERTS	-	-	-	0.007	< 0.040	-	< 0.004



P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

7 - 11 Harding Street
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LE1 4DH

Analytical Test Results - Chemical Analysis

Lab Reference			475362	475363	475364	475365	475366
Client Sample ID			WS01	WS03	WS05	CP01	CP01
Client Sample Location			WS01	WS03	WS05	CP01	CP02
Client Sample Type			D	D	ES	ES	ES
Client Sample Number			-	-	-	-	-
Depth - Top (m)			0.80	0.70	1.30	0.70	4.70
Depth - Bottom (m)			0.80	0.70	1.30	0.70	4.70
Date of Sampling			21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025
Time of Sampling			-	-	-	-	-
Sample Matrix			Clay	Clay	Other	Sand	Clay
Determinant	Units	Accreditation					
Water soluble sulphate (as SO ₄)	(mg/l)	u	15	35	26	97	< 10
pH Value	pH Units	MCERTS	8.8	8.7	9.0	8.7	9.1



P25/00160/ERD - 25-60779

7 - 11 Harding Street
Leicester
LE1 4DH

Project Reference - Northfleet EAL.403.24

Analytical Test Results - VPH / EPH

Lab Reference	475355	475357	475358	475359	475361		
Client Sample ID	WS02	WS04	WS05	TP01	CP01		
Client Sample Location	WS02	WS04	WS05	TP01	CP01		
Client Sample Type	ES	ES	ES	ES	ES		
Client Sample Number	-	-	-	-	-		
Depth - Top (m)	0.90	0.50	0.10	0.20	6.00		
Depth - Bottom (m)	0.90	0.50	0.10	0.20	6.00		
Date of Sampling	21/03/2025	21/03/2025	21/03/2025	21/03/2025	21/03/2025		
Time of Sampling	-	-	-	-	-		
Sample Matrix	Other	Sand	Sand	Sand	Other		
Determinant	Units	Accreditation					
Aliphatic >C ₅ to C ₆ [HS_MS_1D_AL]	(mg/kg)	MCERTS	-	0.25	0.34	-	< 0.06
Aliphatic >C ₆ to C ₈ [HS_MS_1D_AL]	(mg/kg)	MCERTS	-	< 0.06	< 0.06	-	< 0.06
Aliphatic >C ₈ to C ₁₀ [HS_MS_1D_AL]	(mg/kg)	MCERTS	-	< 0.06	< 0.06	-	< 0.06
Aliphatic >C ₁₀ to C ₁₂ [EH_2D_AL]	(mg/kg)	MCERTS	-	< 1.0	< 10.0	-	< 1.0
Aliphatic >C ₁₂ to C ₁₆ [EH_2D_AL]	(mg/kg)	MCERTS	-	1.9	19	-	1.5
Aliphatic >C ₁₆ to C ₂₁ [EH_2D_AL]	(mg/kg)	MCERTS	-	2.4	20	-	4.3
Aliphatic >C ₂₁ to C ₃₅ [EH_2D_AL]	(mg/kg)	MCERTS	-	14	< 20.0	-	3.7
Aliphatic >C ₃₅ to C ₄₄ [EH_2D_AL]	(mg/kg)	u	-	< 5.0	< 50.0	-	< 5.0
Aromatic >C ₅ to C ₇ [HS_MS_1D_AR]	(mg/kg)	MCERTS	-	< 0.01	< 0.01	-	< 0.01
Aromatic >C ₇ to C ₈ [HS_MS_1D_AR]	(mg/kg)	MCERTS	-	< 0.01	< 0.01	-	< 0.01
Aromatic >C ₈ to C ₁₀ [HS_MS_1D_AR]	(mg/kg)	MCERTS	-	< 0.06	< 0.06	-	< 0.06
Aromatic >C ₁₀ to C ₁₂ [EH_2D_AR]	(mg/kg)	MCERTS	-	< 1.0	< 10.0	-	< 1.0
Aromatic >C ₁₂ to C ₁₆ [EH_2D_AR]	(mg/kg)	MCERTS	-	1.2	14	-	< 1.0
Aromatic >C ₁₆ to C ₂₁ [EH_2D_AR]	(mg/kg)	MCERTS	-	14	170	-	1.8
Aromatic >C ₂₁ to C ₃₅ [EH_2D_AR]	(mg/kg)	MCERTS	-	44	600	-	< 2.0
Aromatic >C ₃₅ to C ₄₄ [EH_2D_AR]	(mg/kg)	u	-	12	170	-	< 5.0
Total >C ₅ to C ₃₅ [EH_2D+HS_1D_Total]	(mg/kg)	MCERTS	-	77	820	-	< 10
Total TPH (>C ₈ to C ₄₀) [EH_1D_Total]	(mg/kg)	MCERTS	20	-	-	120	-



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P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

7 - 11 Harding Street
Leicester
LE1 4DH

Analytical Test Results - VOC

Lab Reference	475357	475358	475361
Client Sample ID	WS04	WS05	CP01
Client Sample Location	WS04	WS05	CP01
Client Sample Type	ES	ES	ES
Client Sample Number	-	-	-
Depth - Top (m)	0.50	0.10	6.00
Depth - Bottom (m)	0.50	0.10	6.00
Date of Sampling	21/03/2025	21/03/2025	21/03/2025
Time of Sampling	-	-	-
Sample Matrix	Sand	Sand	Other
Determinant	Units	Accreditation	
Benzene	(mg/kg)	MCERTS	< 0.01
Toluene	(mg/kg)	MCERTS	< 0.01
Ethylbenzene	(mg/kg)	MCERTS	< 0.01
m&p Xylene	(mg/kg)	MCERTS	< 0.02
o-Xylene	(mg/kg)	MCERTS	< 0.01
Dichlorodifluoromethane	(mg/kg)	UKAS	< 0.05
Chloromethane	(mg/kg)	UKAS	< 0.02
Vinyl Chloride	(mg/kg)	MCERTS	< 0.02
Bromomethane	(mg/kg)	u	< 0.05
Chloroethane	(mg/kg)	MCERTS	< 0.01
Trichlorofluoromethane	(mg/kg)	MCERTS	< 0.01
1,1-Dichloroethylene	(mg/kg)	MCERTS	< 0.01
Dichloromethane	(mg/kg)	u	< 0.10
MTBE	(mg/kg)	MCERTS	< 0.01
trans-1,2,-dichloroethylene	(mg/kg)	MCERTS	< 0.01
1,1-Dichloroethane	(mg/kg)	MCERTS	< 0.01
2,2-Dichloropropane	(mg/kg)	MCERTS	< 0.01
cis-1,2,-dichloroethylene	(mg/kg)	MCERTS	< 0.01
Bromochloromethane	(mg/kg)	MCERTS	< 0.05
Chloroform	(mg/kg)	MCERTS	< 0.01
1,1,1-Trichloroethane	(mg/kg)	MCERTS	< 0.01
1,1-Dichloropropene	(mg/kg)	MCERTS	< 0.01
Carbon Tetrachloride	(mg/kg)	MCERTS	< 0.01
1,2-dichloroethane	(mg/kg)	MCERTS	< 0.02
Trichloroethylene	(mg/kg)	MCERTS	< 0.01
1,2-Dichloropropane	(mg/kg)	MCERTS	< 0.01
Dibromomethane	(mg/kg)	MCERTS	< 0.02
Bromodichloromethane	(mg/kg)	MCERTS	< 0.01
cis-1,2-dichloropropylene	(mg/kg)	MCERTS	< 0.01
trans-1,3-dichloropropylene	(mg/kg)	MCERTS	< 0.01
1,1,2-Trichloroethane	(mg/kg)	MCERTS	< 0.01
1,3-Dichloropropane	(mg/kg)	MCERTS	< 0.01
Tetrachloroethylene	(mg/kg)	MCERTS	< 0.01
Chlorodibromomethane	(mg/kg)	MCERTS	< 0.01
1,2-Dibromoethane	(mg/kg)	MCERTS	< 0.01
Chlorobenzene	(mg/kg)	MCERTS	< 0.01
1,1,1,2-tetrachloroethane	(mg/kg)	MCERTS	< 0.01
Styrene	(mg/kg)	UKAS	< 0.01
Isopropylbenzene	(mg/kg)	MCERTS	< 0.01
Bromoform	(mg/kg)	MCERTS	< 0.05
1,1,2,2-Tetrachloroethane	(mg/kg)	MCERTS	< 0.01
1,2,3-Trichloropropane	(mg/kg)	MCERTS	< 0.02
n-Propylbenzene	(mg/kg)	MCERTS	< 0.01
Bromobenzene	(mg/kg)	MCERTS	< 0.01
1,3,5-Trimethylbenzene	(mg/kg)	UKAS	< 0.01
2-chlorotoluene	(mg/kg)	MCERTS	< 0.01
4-chlorotoluene	(mg/kg)	MCERTS	< 0.01
tert-butylbenzene	(mg/kg)	UKAS	< 0.01
1,2,4-trimethylbenzene	(mg/kg)	UKAS	< 0.01
sec-Butylbenzene	(mg/kg)	UKAS	< 0.01
4-Isopropyltoluene (P-Cymene)	(mg/kg)	UKAS	< 0.01
1,3-Dichlorobenzene	(mg/kg)	u	< 0.01
1,4-Dichlorobenzene	(mg/kg)	u	< 0.01
n-Butylbenzene	(mg/kg)	UKAS	< 0.01
1,2-Dichlorobenzene	(mg/kg)	MCERTS	< 0.01
1,2-Dibromo-3-chloropropane	(mg/kg)	u	< 0.05
1,2,4-Trichlorobenzene	(mg/kg)	u	< 0.05
Hexachlorobutadiene	(mg/kg)	u	< 0.05
Naphthalene	(mg/kg)	u	< 0.05
1,2,3-Trichlorobenzene	(mg/kg)	u	< 0.05

P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

Analytical Test Results - SVOC

7 - 11 Harding Street
Leicester
LE1 4DH

Lab Reference			475357	475358	475361
Client Sample ID			WS04	WS05	CP01
Client Sample Location			WS04	WS05	CP01
Client Sample Type			ES	ES	ES
Client Sample Number			-	-	-
Depth - Top (m)			0.50	0.10	6.00
Depth - Bottom (m)			0.50	0.10	6.00
Date of Sampling			21/03/2025	21/03/2025	21/03/2025
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Other
Determinant	Units	Accreditation			
1,2,4-Trichlorobenzene	(mg/kg)	u	< 2.0	< 2.0	< 0.2
1,2-Dichlorobenzene	(mg/kg)	u	< 1.0	< 1.0	< 0.1
1,3-Dichlorobenzene	(mg/kg)	u	< 1.0	< 1.0	< 0.1
1,4-Dichlorobenzene	(mg/kg)	u	< 2.0	< 2.0	< 0.2
1-Chloronaphthalene	(mg/kg)	u	< 1.0	< 1.0	< 0.1
2,3,4,6-Tetrachlorophenol	(mg/kg)	u	< 6.0	< 6.0	< 0.6
2,4,5-Trichlorophenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2,4,6-Trichlorophenol	(mg/kg)	u	< 3.0	< 3.0	< 0.3
2,4-Dichlorophenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2,4-Dimethoxyphenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2,4-Dinitrophenol	(mg/kg)	u	< 20.0	< 20.0	< 2.0
2,6-Dichlorophenol	(mg/kg)	u	< 3.0	< 3.0	< 0.3
2,6-Dinitrotoluene	(mg/kg)	u	< 6.0	< 6.0	< 0.6
2-Chlorophenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2-Methylnaphthalene	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2-Methylphenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
2-Nitroaniline	(mg/kg)	u	< 4.0	< 4.0	< 0.4
2-Nitrophenol	(mg/kg)	u	< 6.0	< 6.0	< 0.6
3,3-Dichlorobenzidine	(mg/kg)	u	< 3.0	< 3.0	< 0.3
3/4-Methylphenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
3-Nitroaniline	(mg/kg)	u	< 6.0	< 6.0	< 0.6
4-Chlorophenyl phenyl ether	(mg/kg)	u	< 2.0	< 2.0	< 0.2
4,6-Dinitro-2-methylphenol	(mg/kg)	u	< 10.0	< 10.0	< 1.0
4-Bromophenyl phenyl ether	(mg/kg)	u	< 2.0	< 2.0	< 0.2
4-Chloro-3-methylphenol	(mg/kg)	u	< 2.0	< 2.0	< 0.2
4-Chloroaniline	(mg/kg)	u	< 2.0	< 2.0	< 0.2
4-Nitroaniline	(mg/kg)	u	< 3.0	< 3.0	< 0.3
4-Nitrophenol	(mg/kg)	u	< 6.0	< 6.0	< 0.6
Acenaphthene	(mg/kg)	u	< 1.0	1.4	< 0.1
Acenaphthylene	(mg/kg)	u	< 1.0	4.3	< 0.1
Aniline	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Anthracene	(mg/kg)	u	< 1.0	7.6	< 0.1
Azobenzene	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Benzo[a]anthracene	(mg/kg)	u	2.1	30	< 0.1
Benzo[ghi]perylene	(mg/kg)	u	1.6	30	< 0.1
Benzo[a]pyrene	(mg/kg)	u	< 2.0	37	< 0.2
Benzo[b]fluoranthene	(mg/kg)	u	2.7	44	< 0.1
Benzo[k]fluoranthene	(mg/kg)	u	1.2	19	< 0.1
Benzyl Alcohol	(mg/kg)	u	< 3.0	< 3.0	< 0.3
Benzyl butyl phthalate	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Bis(2-chloroethoxy)methane	(mg/kg)	u	< 1.0	< 1.0	< 0.1
Bis(2-chloroethyl)ether	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Bis(2-chloroisopropyl)ether	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Bis(2-ethylhexyl) phthalate	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Chrysene	(mg/kg)	u	2.8	28	< 0.1
Dibenz[a,h]anthracene	(mg/kg)	u	< 2.0	5.6	< 0.2
Dibenzofuran	(mg/kg)	u	< 1.0	< 1.0	< 0.1
Dibutyl phthalate	(mg/kg)	u	< 1.0	< 1.0	< 0.1
Diethyl Phthalate	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Dimethyl phthalate	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Di-n-octyl phthalate	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Diphenylamine	(mg/kg)	u	< 1.0	< 1.0	< 0.1
Fluoranthene	(mg/kg)	u	4.8	64	< 0.1
Fluorene	(mg/kg)	u	< 1.0	< 1.0	< 0.1
Hexachlorobenzene	(mg/kg)	u	< 3.0	< 3.0	< 0.3
Hexachlorobutadiene	(mg/kg)	u	< 3.0	< 3.0	< 0.3
Hexachlorocyclopentadiene	(mg/kg)	u	< 10.0	< 10.0	< 1.0
Hexachloroethane	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Indeno[1,2,3-cd]pyrene	(mg/kg)	u	< 2.0	29	< 0.2
Isophorone	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Methyl Methanesulfonate	(mg/kg)	u	< 3.0	< 3.0	< 0.3
Naphthalene	(mg/kg)	u	< 1.0	< 1.0	< 0.1
NitroBenzene	(mg/kg)	u	< 3.0	< 3.0	< 0.3
N-Nitrosodimethylamine	(mg/kg)	u	< 2.0	< 2.0	< 0.2
Pentachlorophenol	(mg/kg)	u	< 10.0	< 10.0	< 1.0
Phenanthrene	(mg/kg)	u	1.9	17	< 0.1
Phenol	(mg/kg)	u	< 1.0	< 1.0	< 0.1

P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

Analytical Test Results - SVOC

7 - 11 Harding Street
Leicester
LE1 4DH

Lab Reference			475357	475358	475361
Client Sample ID			WS04	WS05	CP01
Client Sample Location			WS04	WS05	CP01
Client Sample Type			ES	ES	ES
Client Sample Number			-	-	-
Depth - Top (m)			0.50	0.10	6.00
Depth - Bottom (m)			0.50	0.10	6.00
Date of Sampling			21/03/2025	21/03/2025	21/03/2025
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Other
Determinant	Units	Accreditation			
Pyrene	(mg/kg)	u	4.1	56	< 0.1



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P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

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Certificate Of Analysis - WAC Suite

Lab Reference		475360
Client Sample ID	WS02	
Client Sample Location	WS02	
Client Sample Type	ES	
Client Sample Number	-	
Depth - Top (m)	0.4	
Depth - Bottom (m)	0.4	
Date of Sampling	21/03/2025	
Time of Sampling	-	
Sample Description	Made Ground- mottled greyish silty sand with rare brick fragments organic matter	
Sample Matrix	Sand	
Moisture Content (%)	16	
Stone content (%)	9.4	

				Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis							
Total Organic Carbon	%	MCERTS	1.7		3.0	5.0	6.0
Loss on Ignition	%	UKAS	3.9		-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06		6.00	-	-
PCB's (7 Congeners)	mg/kg	MCERTS	< 0.025		1.00	-	-
Mineral Oil (>C10 to C40) [EH_1D_Total]	mg/kg	MCERTS	486		500	-	-
PAH	mg/kg	u	37		100	-	-
pH	units	MCERTS	8.5		-	> 6	-

Eluate Analysis							
Arsenic	mg/kg	UKAS	0.02		0.50	2	25
Barium	mg/kg	UKAS	0.16		20	100	300
Cadmium	mg/kg	UKAS	< 0.0025		0.04	1	5
Chromium (total)	mg/kg	UKAS	0.01		0.5	10	70
Copper	mg/kg	UKAS	0.05		2.0	50	100
Mercury	mg/kg	UKAS	< 0.00050		0.01	0.2	2
Molybdenum	mg/kg	UKAS	0.27		0.5	10.0	30
Nickel	mg/kg	UKAS	< 0.075		0.4	10.0	40
Lead	mg/kg	UKAS	< 0.036		0.5	10.0	50
Antimony	mg/kg	UKAS	< 0.050		0.06	0.7	5
Selenium	mg/kg	UKAS	< 0.0052		0.1	0.5	7
Zinc	mg/kg	u	< 0.25		4	50	200
Chloride	mg/kg	UKAS	11		800	15000	25000
Fluoride	mg/kg	u	11		10	150	500
Sulphate (as SO ₄)	mg/kg	UKAS	160		1000	20000	50000
Total Dissolved Solids	mg/kg	u	890		4000	60000	100000
Phenol Index	mg/kg	u	< 1.0		1	-	-
Dissolved Organic Carbon	mg/kg	UKAS	55.0		500	800	1000



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P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
475354	WS01	WS01	ES	-	Mottled brown very gravelly silty sand	14	11	84
475355	WS02	WS02	ES	-	White chalk	29	< 0.1	100
475356	WS03	WS03	ES	-	Mottled brown very gravelly silty sand with rare brick fragments organic matter	13	11	82
475357	WS04	WS04	ES	-	Made Ground- mottled brown very gravelly silty sand with rare organic matter with frequent chalk	14	19	81
475358	WS05	WS05	ES	-	Made Ground- black silty sand with rare slag	12	11	78
475359	TP01	TP01	ES	-	Dark brown silty sand with rare organic matter	26	< 0.1	100
475360	WS02	WS02	ES	-	Made Ground- mottled greyish silty sand with rare brick fragments organic matter	16	9.4	77
475361	CP01	CP01	ES	-	White silty gravelly chalk	22	< 0.1	100
475362	WS01	WS01	D	-	Mottled greyish brown gravelly silty clay with frequent chalk	-	-	88
475363	WS03	WS03	D	-	Mottled greyish brown gravelly silty clay with frequent chalk	-	-	80
475364	WS05	WS05	ES	-	White clayey chalk	-	-	79
475365	CP01	CP01	ES	-	Black clayey silty sand	-	-	78
475366	CP01	CP02	ES	-	White chalk silty clay	-	-	100



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Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
475354	WS01	WS01	ES	-	PAHAR - 1/10 dark colour extract
475355	WS02	WS02	ES	-	
475356	WS03	WS03	ES	-	PAHAR - 1/10 dark colour extract
475357	WS04	WS04	ES	-	PAHAR - 1/10 dark colour extract VPH/BTEX - Sample taken from container with headspace. VOC - Sample taken from container with headspace.
475358	WS05	WS05	ES	-	PCB - 1/10 dark colour extract PAHAR - 1/10 dark colour extract VPH/BTEX - Sample taken from container with headspace.
475359	TP01	TP01	ES	-	
475360	WS02	WS02	ES	-	PAHAR - 1/10 dark colour extract VPH/BTEX - Sample taken from container with headspace.
475361	CP01	CP01	ES	-	VPH/BTEX - Sample taken from container with headspace. VOC - Sample taken from container with headspace.
475362	WS01	WS01	D	-	
475363	WS03	WS03	D	-	
475364	WS05	WS05	ES	-	
475365	CP01	CP01	ES	-	
475366	CP01	CP02	ES	-	

P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
WACMETALS1	MS-CL-Metals in Waters by ICP-MS (WAC)	As received	MS-CL-Soil Leachate Preparation	Determination of dissolved metals in leachates via ICP-MS, expressed as quantity of analyte leached from the original material.
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
SVOCS	MS - CL - Semi VOC	As received	Passing 10mm test sieve	Determination of Semi volatile organic compounds in soil via GC-MS
TDSL	MS-CL-Conductivity in Water(TDS by Calc)	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates (by calculation)
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Determination of total phenols in soil using Skalar segmented flow analyser
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TOCS	MS - CL - TOC Eltra	Air Dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soils
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
GCXGCS	MS - CL - TPH & EPH by GCXGC	As received	Passing 10mm test sieve	Determination of TPH and EPH in soils via GCxGC-FID
CWGS	Calculation from VPH-S and EPH-S	As received	Passing 10mm test sieve	Determination of TPH CWG (Volatile Petroleum Hydrocarbons and Extractable Petroleum Hydrocarbons) in soils via Headspace-GC-MS and GC-GC-FID respectively



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Project Reference - Northfleet EAL.403.24

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
VOCS	MS - CL - VOC and MBTEX	As received	Passing 10mm test sieve	Determination of VOCs (inc BTEX) in soils via Headspace-GC-MS
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Determination of VPH in soils via Headspace-GC-MS
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Determination of Water soluble Boron in soils via ICP
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
LEACH-TS-P	MS-CL-Soil Leachate Preparation (TS)	As Received	All crushed to pass 4mm test sieve	Preparation of two stage soil leachates in accordance with MS-CL-Soil Leachate Preparation
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	Testing was in accordance with BS 1377: Part 3: 2018 + A1 :2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.



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Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

W - No time of sampling provided for water sample

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received with less than 96 hours for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
475354	WS01	WS01	ES	-	MS - CL - pH in Soils	R
475356	WS03	WS03	ES	-	MS - CL - pH in Soils	R
475357	WS04	WS04	ES	-	MS - CL - VOC and MBTEX	R
475357	WS04	WS04	ES	-	MS - CL - VPH	R
475358	WS05	WS05	ES	-	MS - CL - VOC and MBTEX	R
475358	WS05	WS05	ES	-	MS - CL - VPH	R
475360	WS02	WS02	ES	-	MS - CL - pH in Soils (WAC)	R
475360	WS02	WS02	ES	-	MS - CL - VPH	R
475361	CP01	CP01	ES	-	MS - CL - VOC and MBTEX	R
475361	CP01	CP01	ES	-	MS - CL - VPH	R
475362	WS01	WS01	D	-	MS - CL - pH in Soils	R
475363	WS03	WS03	D	-	MS - CL - pH in Soils	R
475364	WS05	WS05	ES	-	MS - CL - pH in Soils	R
475365	CP01	CP01	ES	-	MS - CL - pH in Soils	R
475366	CP01	CP02	ES	-	MS - CL - pH in Soils	R

P25/00160/ERD - 25-60779

Project Reference - Northfleet EAL.403.24

HWOL TPH Acronym Index

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Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



LABORATORY REPORT



Contract Number: PSL25/2199

Report Date: 31 March 2025
Client's Reference: EAL.403.24
Client Name: Erda Associates Ltd
102 Scalpcliffe Road
Burton Upon Trent
DE15 9AB

Contract Title: Northfleet

Date Received: 24/03/2025
Date Commenced: 24/03/2025
Date Completed: 31/03/2025

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

Northfleet

Contract No:

PSL25/2199

Client Ref:**EAL.403.24**

SUMMARY OF SOIL CLASSIFICATION TESTS

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

[illegible]

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

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

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

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

SYMBOLS : NP = Non Plastic



Northfleet

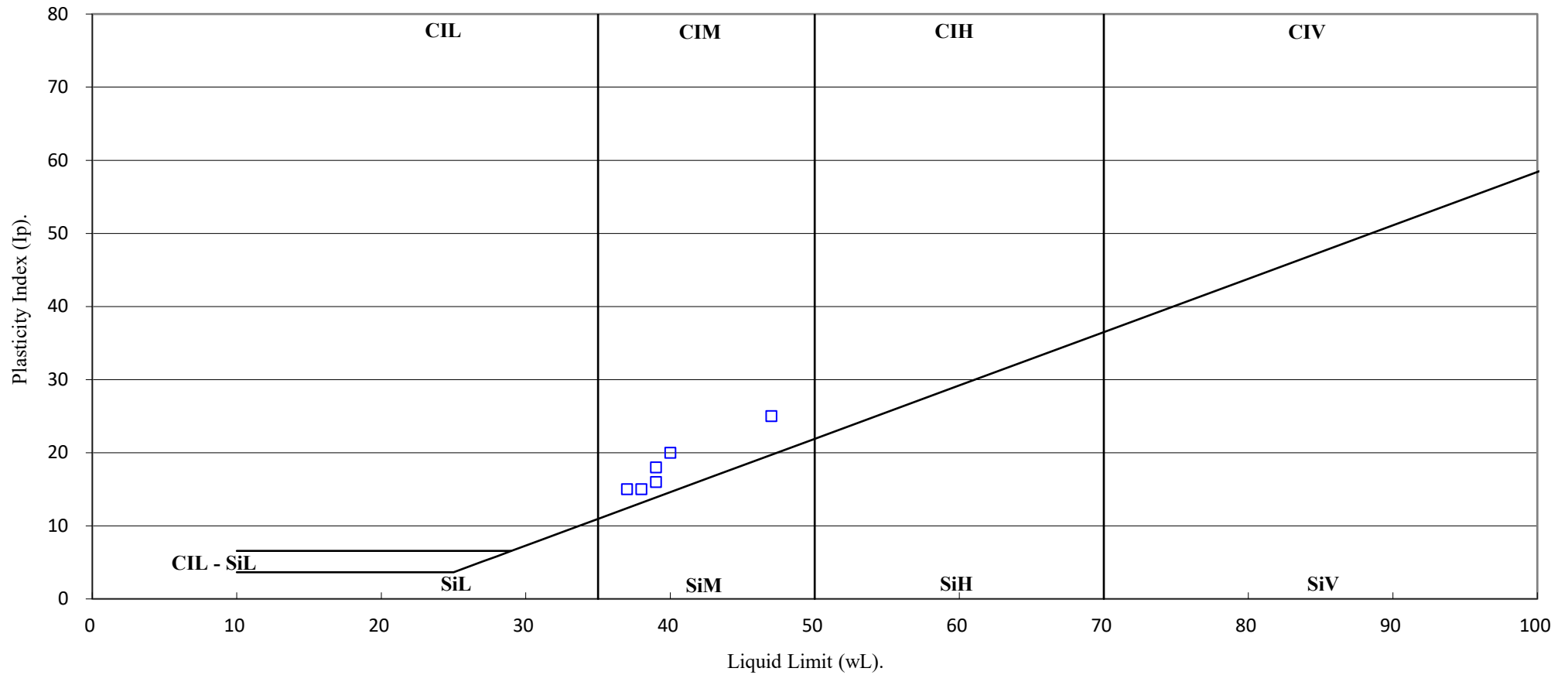
Contract No:

PSL25/2199

Client Ref:**EAL.403.24**

PLASTICITY CHART

BS EN ISO 14688-2:2017 Clause 4.4



4043



Northfleet

Contract No:

PSL25/2199

Client Ref:

EAL.403.24

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST

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

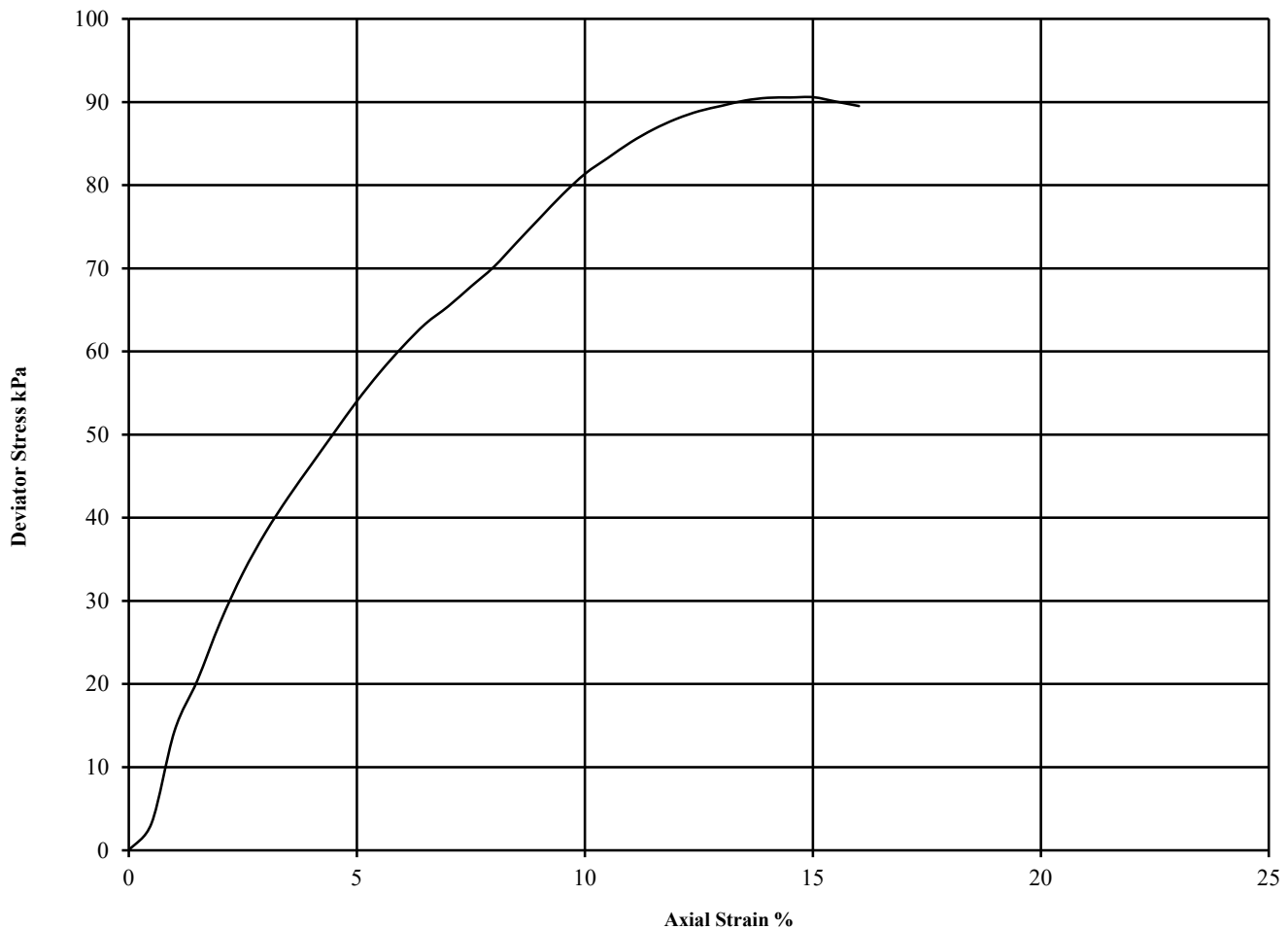
Hole Number: CP02

Top Depth (m): 5.00

Sample Number

Base Depth (m): 5.45

Sample Type U100



Diameter (mm):		102		Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Water Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)		Plastic	Undisturbed Sample Sample taken from top of tube Rate of strain = 0.9 %/min See summary of soil descriptions
1	31.9	2.03	1.54	10	91	45	14.5			



Northfleet

Contract No:

PSL25/2199

Client Ref:

EAL.403.24

Appendix D



Tier 1 Assessment Criteria

Determinand	Commercial/Industrial (mg/kg) - 1% SOM			Source
Arsenic	640.00			LQM S4UL
Boron	240000.00			LQM S4UL
Cadmium	410.00			C4SL
Chromium III	8600.00			LQM S4UL
Chromium VI	33.00			LQM S4UL
Lead	2300.00			C4SL
Mercury, elemental	58.00 ^{vap} (25.80)			LQM S4UL
Mercury, inorganic	1100.00			LQM S4UL
Mercury, methyl	320.00			LQM S4UL
Selenium	12000.00			LQM S4UL
Nickel	980.00			LQM S4UL
Copper	68000.00			LQM S4UL
Vanadium	9000.00			LQM S4UL
Zinc	730000.00			LQM S4UL
	Polycyclic Aromatic Hydrocarbons			
	SOM 1%	SOM 2.5%	SOM 6%	
Benzo(a)pyrene	35.00	35.00	36.00	LQM S4UL
Dibenz(ah)anthracene	3.50	3.60	3.60	LQM S4UL
Acenaphthene	84000 (57) ^{sol}	97000 (141) ^{sol}	100000.00	LQM S4UL
Acenaphthylene	83000 (86) ^{sol}	97000 (212) ^{sol}	100000.00	LQM S4UL
Anthracene	520000.00	540000.00	540000.00	LQM S4UL
Benzo(a)anthracene	170.00	170.00	180.00	LQM S4UL
Benzo(b)fluoranthene	44.00	44.00	45.00	LQM S4UL
Benzo(ghi)perylene	3900.00	4000.00	4000.00	LQM S4UL
Benzo(k)fluoranthene	1200.00	1200.00	1200.00	LQM S4UL
Chrysene	350.00	350.00	350.00	LQM S4UL
Fluoranthene	23000.00	23000.00	23000.00	LQM S4UL
Fluorene	63000 (30) ^{sol}	68000.00	71000.00	LQM S4UL
Indeno(123cd)pyrene	500.00	510.00	510.00	LQM S4UL
Phenanthrene	22000.00	22000.00	23000.00	LQM S4UL
Pyrene	54000.00	54000.00	54000.00	LQM S4UL
Naphthalene	190 (76) ^{sol}	460 (183) ^{sol}	1100 (432) ^{sol}	LQM S4UL

Note:

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* Values calculated using CLEA v1.071

^{vap} - S4UL presented exceed the vapour saturation limit, which is presented in brackets.

^{sol} - S4UL presented exceeds the solubility saturation limit, which is presented in brackets.

Tier 1 Assessment Criteria

Determinand	Commercial/Industrial (mg/kg)			Source
	1% SOM	2.5% SOM	6% SOM	
Benzene	27.00	47.00	90.00	LQM S4UL
Ethylbenzene	5700 ^{vap} (518)	13000 ^{vap} (1220)	27000 ^{vap} (2840)	LQM S4UL
Phenol	760.00	1500.00	3200.00	LQM S4UL
Toulene	56000 ^{vap} (869)	110000 ^{vap} (1920)	180000 ^{vap} (4360)	LQM S4UL
Xylene, o-	6600 ^{sol} (478)	15000 ^{sol} (1120)	33000 ^{sol} (2620)	LQM S4UL
Xylene, m-	6200 ^{vap} (625)	14000 ^{vap} (1470)	31000 ^{vap} (3460)	LQM S4UL
Xylene, p-	5900 ^{sol} (576)	14000 ^{sol} (1350)	30000 ^{sol} (3170)	LQM S4UL
Aliphatic C5-C6	3200 (304) ^{sol}	5900 (558) ^{sol}	12000 (1150) ^{sol}	LQM S4UL
Aliphatic C6-C8	7800 (144) ^{sol}	17000 (322) ^{sol}	40000 (736) ^{sol}	LQM S4UL
Aliphatic C8-C10	2000 (78) ^{sol}	4800 (190) ^{vap}	11000 (451) ^{vap}	LQM S4UL
Aliphatic C10-C12	9700 (48) ^{sol}	23000 (118) ^{vap}	47000 (283) ^{vap}	LQM S4UL
Aliphatic C12-C16	59000 (24) ^{sol}	82000 (59) ^{sol}	90000 (142) ^{sol}	LQM S4UL
Aliphatic C16-C35	1600000	1700000	1800000	LQM S4UL
Aliphatic C35-C44	1600000	1700000	1800000	LQM S4UL
Aromatic C5-C7	26000 (1200) ^{sol}	46000 (2260) ^{sol}	86000 (4710) ^{sol}	LQM S4UL
Aromatic C7-C8	56000 (869) ^{vap}	110000 (1920) ^{sol}	180000 (4360) ^{vap}	LQM S4UL
Aromatic C8-C10	3500 (613) ^{vap}	8100 (1500) ^{vap}	17000 (3580) ^{vap}	LQM S4UL
Aromatic C10-C12	16000 (364) ^{sol}	28000 (899) ^{sol}	34000 (2150) ^{sol}	LQM S4UL
Aromatic C12-C16	36000 (169) ^{sol}	37000	38000	LQM S4UL
Aromatic C16-C21	28000	28000	28000	LQM S4UL
Aromatic C21-C35	28000	28000	28000	LQM S4UL
Aromatic C35-C44	28000	28000	28000	LQM S4UL
Combined Aliphatic and Aromatic C44-C70	28000	28000	28000	LQM S4UL

Note:

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^{vap} - S4UL presented exceed the vapour saturation limit, which is presented in brackets.

^{sol} - S4UL presented exceeds the solubility saturation limit, which is presented in brackets.

Appendix E



GROUND TESTING SERVICES LTD

Test Report No: 01844

Date of Report: 20/03/25

Client: Erda Associates Ltd

Address: Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, DA11 9AD

Contact: Phil Devitt 07531051197

Site: Kimberley Clark Ltd

Test Required: 4 x Plate load bearing test (to determine CBR %)

Material: Engineered Fill

Supplier/Source: Unknown

Depth/Level: Subbase

Location: CBR 1 – 4

Plate Size: 300mm

Date Tested: 20/03/25

Weather Conditions: overcast

Operator: L Mawson

Kentledge: 360 excavator

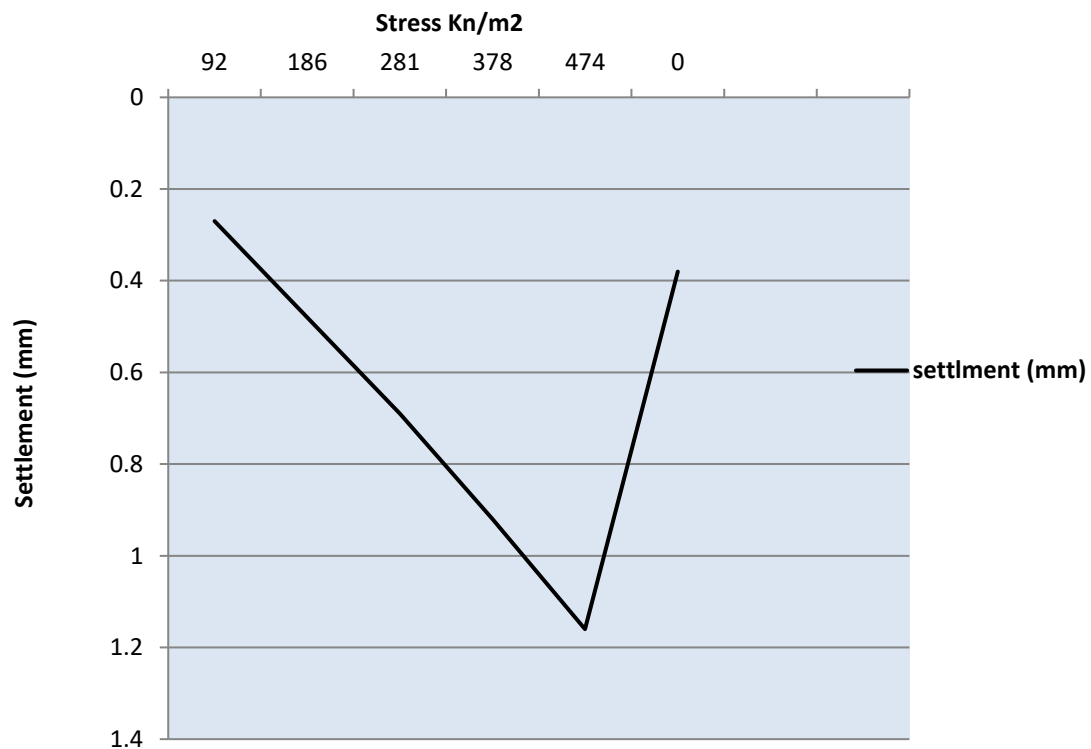
All testing is in accordance with BS EN 1996-2 / BS 1377-9

Report valid on (20/03/25)

Site readings.

Increment	stress kn/m2	settlment (mm)
1	92	0.27
2	186	0.48
3	281	0.69
4	378	0.92
5	474	1.16
6	0	0.38
7		
8		

Visual report.



CBR (1)

Max settlement: 1.16 mm

Estimated CBR Value: + 70.1 %

Signature:

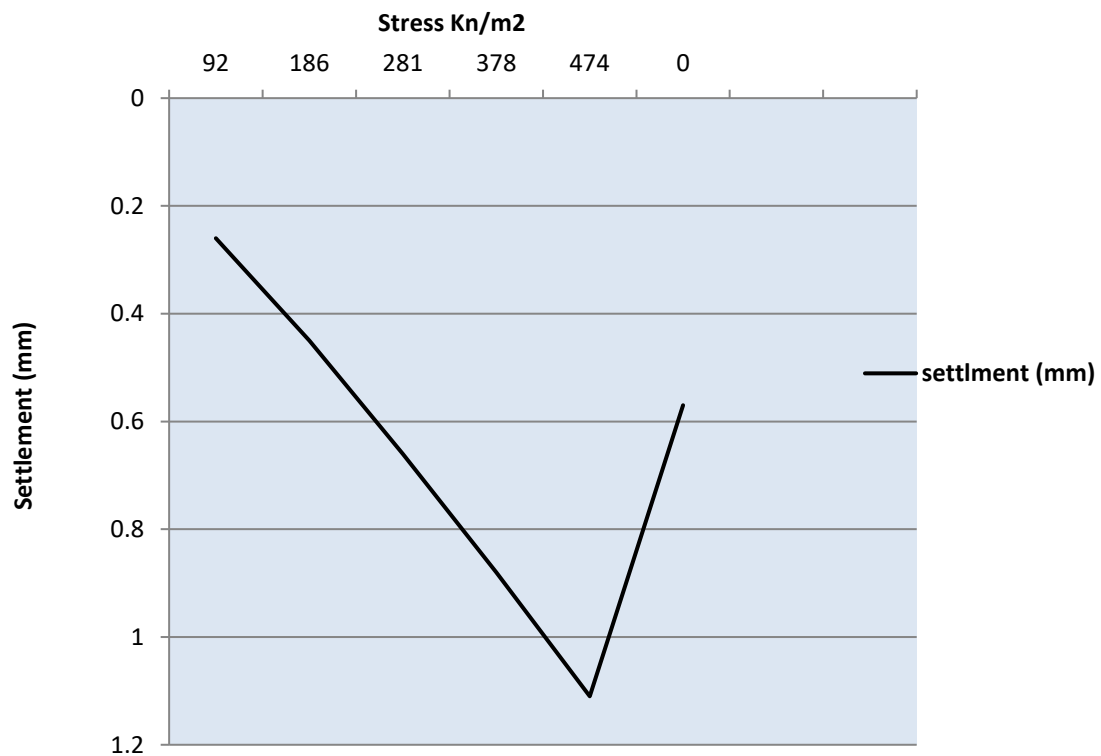
J. A. W.

Date: 20/03/25

Site readings.

Increment	stress kn/m2	settlment (mm)
1	92	0.26
2	186	0.45
3	281	0.66
4	378	0.88
5	474	1.11
6	0	0.57
7		
8		

Visual report.



CBR (2)

Max settlement: 1.11 mm

Estimated CBR Value: + 70.1 %

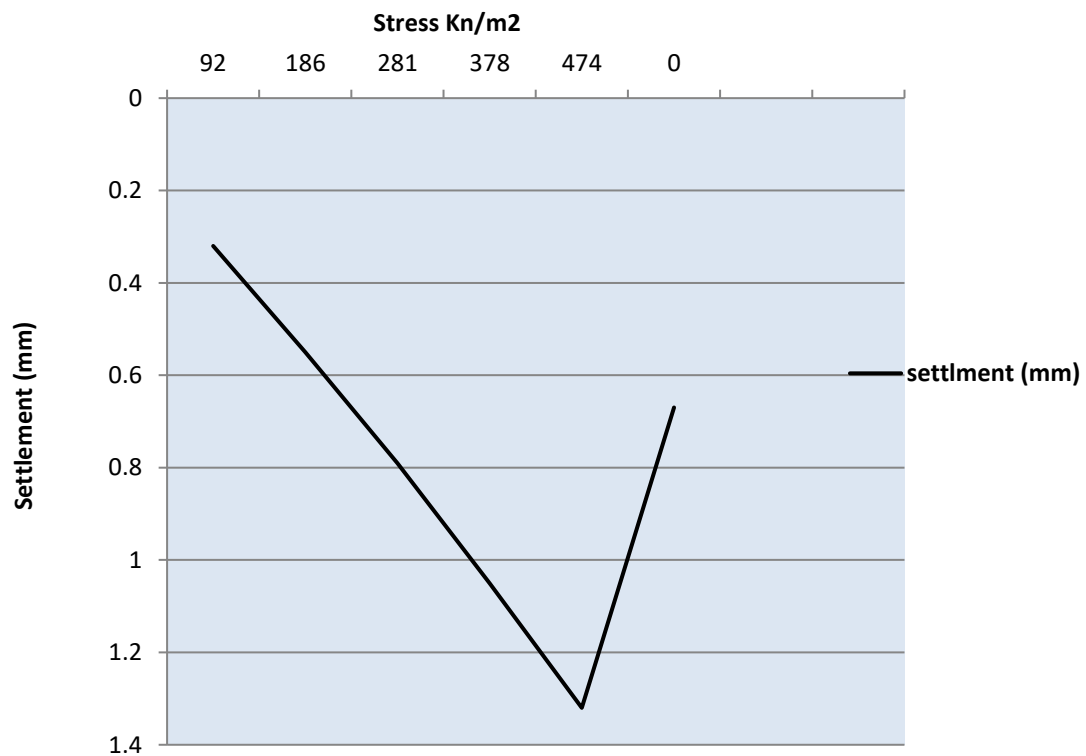
Signature:

Date: 20/03/25

Site readings.

Increment	stress kn/m2	settlment (mm)
1	92	0.32
2	186	0.55
3	281	0.79
4	378	1.05
5	474	1.32
6	0	0.67
7		
8		

Visual report.



CBR (3)

Max settlement: 1.32 mm

Estimated CBR Value: 64 %

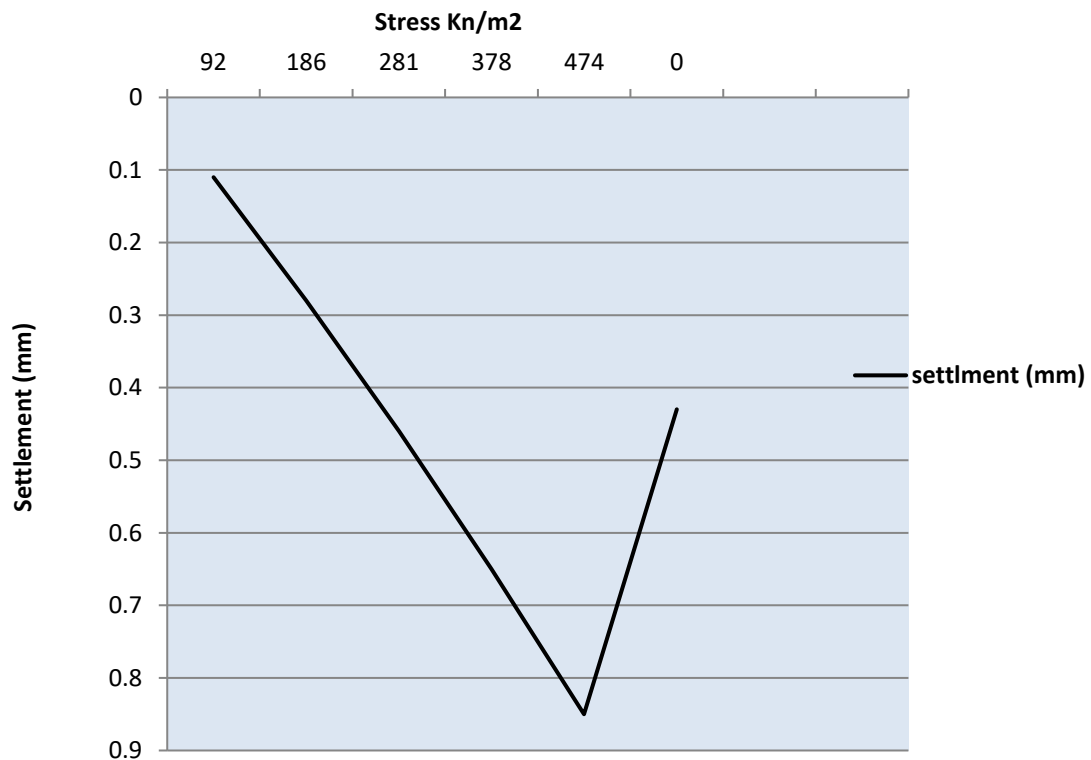
Signature:

Date: 20/03/25

Site readings.

Increment	stress kn/m2	settlnment (mm)
1	92	0.11
2	186	0.28
3	281	0.46
4	378	0.65
5	474	0.85
6	0	0.43
7		
8		

Visual report.



CBR (4)

Max settlement: 0.85 mm

Estimated CBR Value: + 70.1 %

Signature:

Date: 20/03/25