



CONTRACT NO. 30510106/2B

**SOIL VERIFICATION REPORT FOR A PROPOSED
DEVELOPMENT AT GRAVESEND – SOFT
LANDSCAPING AREAS**

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Client:	Curo Living Ltd
Report Issue No.	1
Report Status:	Final
Date:	February 2026
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Generic List of Acronyms and Abbreviations

µg/kg	micrograms per kilogram
µg/l	micrograms per litre
ACEC	aggressive chemical environment for concrete
ACM	asbestos containing material
AOD	above Ordnance datum
bgl	below ground level
BGS	British Geological Survey
BH	Borehole
BTEX	benzene, toluene, ethylbenzene and xylene compounds
C4SL	Category 4 Screening Level
CBR	California bearing ratio
CH ₄	Methane
CIRIA	Construction Industry Research and Information Association
CO	carbon monoxide
CO ₂	carbon dioxide
COMAH	control of major accident hazards
CPT	cone penetration test
CSM	conceptual site model
DEFRA	Department of Environment, Food and Rural Affairs
DoE	Department of Environment (now part of DEFRA)
DP	dynamic probe
DPSH	dynamic probe super heavy
DQRA	detailed quantitative risk assessment
DS	design sulphate class
DWS	drinking water standard
EA	Environment Agency
EHO	Environmental Health Officer
EQS	environmental quality standard
FRA	flood risk assessment
GAC	generic assessment criteria
GPR	ground penetrating radar
GPS	global positioning systems
GQRA	generic quantitative risk assessment
GW-TV	groundwater threshold value
ha	Hectare
H ₂ S	hydrogen sulphide
HSE	Health and Safety Executive
IPPC	Integrated Pollution Prevention and Control
LAPPC	Local Authority Pollution Prevention and Control
LCRM	Land Contamination Risk Management
LNR	Local Nature Reserve
mb	Millibar

MAGIC	Multi Agency Geographical Information for the Countryside
MCERTS	Monitoring Certification Scheme
mg/kg	milligrams per kilogram
mg/l	milligrams per litre
NIEA	Northern Ireland Environment Agency
NGR	National Grid Reference
O ₂	Oxygen
OS	Ordnance Survey
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyls
PFS	petrol filling station
PID	photo ionisation detector
PHE	Public Health England
PPE	personal protective equipment
PRA	preliminary risk assessment
SAC	Special Area of Conservation
S4UL	Suitable For Use Level
SEPA	Scottish Environment Protection Agency
SGV	soil guideline value
SOM	soil organic matter
SPA	Special Protection Area
SPT	standard penetration test
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
SVOCs	semi-volatile organic compounds
TOC	total organic carbon
TP	trial pit
TPH	total petroleum hydrocarbons
TPO	Tree Preservation Order
UKAS	United Kingdom Accreditation Service
UXO	unexploded ordnance
UST	underground storage tank
VOCs	volatile organic compounds
WAC	Waste Acceptance Criteria
WFD	Water Framework Directive
WHO	World Health Organisation
WS	window sampling borehole



SOIL VERIFICATION REPORT FOR A PROPOSED DEVELOPMENT AT GRAVESEND – SOFT LANDSCAPING AREAS

Executive Summary

Objective	The objective of the works was to verify that imported soil used within areas of soft landscaping meet the required chemical Compliance Criteria detailed in a Remediation Strategy for the site and that the thickness of clean capping material with the soft landscaping areas meet the required thickness.
Site Description	The site is occupied by a multistorey residential development (under construction) with associated areas of soft landscaping.
Scope of Works	Four samples, two from the imported topsoil and two from the imported subsoil were collected and subjected to a suite of contamination laboratory testing, the results of which were compared to predetermined Compliance Criteria. Four hand excavated trial pits were also completed to the base of the imported material to measure its thickness and ensure that it met the minimum requirements.
Verification Assessment	Concentrations of the tested determinants are below the respective Compliance Criteria, and therefore the imported material is suitable for use within landscaped areas. The minimum required 500mm thickness of clean capping material was observed to have been achieved at the investigated locations.
Limitations	The limitations of this report are detailed in Section 6.0.



1.0 INTRODUCTION

DTS Raeburn Limited t/a Igne were commissioned by Curo Living to carry out validation investigation, sampling and laboratory testing of imported soil used within areas of soft landscaping, and to prepare a verification report. The objective of the work was to verify that the imported soil met the chemical Compliance Criteria set out in the site's Remediation Strategy and that a minimum 500mm thickness of suitably clean capping material was placed within the soft landscaping areas.

This is the third report relating to validation of imported soils, with the first prepared in September 2025 in relation to material used to fill planters and the second prepared in December 2025 in relation to material used to fill planters and within areas of soft landscaping. It is understood that no further soil is to be imported, and therefore this will be the final report in relation to validation testing.

The works were undertaken in accordance with the following documents to discharge the relevant parts of Planning Condition 9 of Planning Ref. 20200343:

-  DTS Raeburn Remediation Strategy (E13343/3-L1), December 2021
-  Igne Verification Plan (30510106-1), June 2025

The above documents include the requirement for validation testing to be undertaken at a rate of not less than one sample per 500m³ of clean cover material, and comparison of the results to Compliance Criteria to verify that the levels of contamination within the soils are suitable for the proposed use.

2.0 SITE DETAILS

The site is located on Bank Street, Gravesend, DA12 2EN and is centred on an approximate National Grid Reference (NGR) 574680, 109370.

The site is irregular in shape, covers an area of 0.8ha and consists of two multistorey residential buildings currently under construction, with associated areas of soft landscaping, as indicated in Figure 1.

This report covers the validation of approximately 200m³ of topsoil and subsoil which has been imported to site for use within planters and soft landscaped areas.

3.0 VERIFICATION SAMPLES

The imported topsoil comprised greyish brown organic slightly clayey fine to medium sand whilst the subsoil comprised yellowish brown slightly clayey fine to medium sand. No visual or olfactory evidence of contamination was observed within either material.

Four samples for contamination assessment, two from the topsoil and two from the subsoil, were recovered by the Igne site engineer in accordance with the guidelines in BS 10175:2011+A2:2017 'Investigation of Potentially Contaminated Sites - Code of Practice'. During sampling all reasonable effort was maintained to prevent cross-contamination or general failure of the sampling strategy. All samples were collected in new, clean bags or jars as appropriate using a stainless-steel trowel, which was cleaned prior to the collection of each sample. The recovered samples were temporarily stored



in cool boxes with freeze packs in order to maintain low temperatures during transfer to the laboratory.

4.0 VERIFICATION TESTING

Within the area of soft landscaping, four excavations were completed by hand digging to the base of the placed material (separated from the original ground by a geotextile membrane). The thickness of subsoil/topsoil at each location was in excess of the required 500mm as evidenced in Plates 1-4.

The recovered soil samples were subjected to laboratory analysis for the suite of determinants listed in Appendix 1 of both the Remediation Strategy and Verification plan. These are also listed in Table 5.1 of this report.

The analysis was undertaken by Normec DETS, to UKAS and MCERTS accreditation where applicable. The results are presented in Appendix 1.

5.0 VERIFICATION ASSESSMENT

The results of the testing undertaken have been compared directly to the Compliance Criteria presented in the Remediation Strategy and Verification Plan. This comparison is presented in Table 5.1, with any exceedances of the Compliance Criteria highlighted **bold**.

Table 5-1 Assessment of soil contamination test results

Determinant	Maximum Detected Concentration (mg/kg)	Compliance Criteria (mg/kg)
arsenic	12	79
cadmium	0.1	220
chromium (III)	44	1,500
chromium (VI)	<1	21
copper	35	12,000
lead	28	630
selenium	<0.5	1,100
mercury (inorganic)	<0.5	120
nickel	17	230
zinc	66	81,000
boron	2.4	21,000
phenol ¹	0.7	440
PAH		
acenaphthene	<0.03	15,000
acenaphthylene	<0.03	15,000
anthracene	<0.03	74,000
benzo(a)anthracene	<0.03	29
benzo(a)pyrene	<0.03	5.7
benzo(b)fluoranthene	<0.03	7.1
benzo(g,h,i)perylene	<0.03	640
benzo(k)fluoranthene	<0.03	190
chrysene	<0.03	57
dibenzo(a,h)anthracene	<0.03	0.57

fluoranthene	0.06	3,100
fluorene	<0.03	9,900
indeno(1,2,3-cd)pyrene	<0.03	82
naphthalene	<0.03	4,900
phenanthrene	<0.03	3,100
pyrene	0.04	7,400
TPH and BTEX		
aliphatic C ₅ -C ₆ ²	<0.01	304
aliphatic C ₆ -C ₈	<0.01	60,000
aliphatic C ₈ -C ₁₀	<0.01	13,000
aliphatic C ₁₀ -C ₁₂	<1.5	13,000
aliphatic C ₁₂ -C ₁₆	<1.2	13,000
aliphatic C ₁₆ -C ₃₅	<4.9	250,000
aromatic EC ₅ -EC ₇	<0.01	56,000
aromatic EC ₇ -EC ₈	<0.01	56,000
aromatic EC ₈ -EC ₁₀	<0.01	5,000
aromatic EC ₁₀ -EC ₁₂	<0.9	5,000
aromatic EC ₁₂ -EC ₁₆	<0.5	5,100
aromatic EC ₁₆ -EC ₂₁	<0.6	3,800
aromatic EC ₂₁ -EC ₃₅	<1.4	3,800
benzene	<0.01	140
toluene ²	<0.01	56,000
ethylbenzene ²	<0.01	24,000
m&p-xylene ²	<0.01	41,000
o-xylene ²	<0.01	41,000
asbestos	Not detected	-

¹ Based on a threshold protective of direct skin contact with phenol (most conservative)

² SGV/GAC capped at the lower of the vapour or aqueous saturation limits in soil

As shown within Table 5-1, concentrations of the tested determinants are below the respective Compliance Criteria, and therefore the imported material is suitable for use within the upper 500mm of landscaped areas.

6.0 LIMITATIONS AND USE OF THIS REPORT

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations and conclusions contained in this report.

- This report has been prepared at the request of Curo Living Ltd ('the Client') pursuant to their appointment of Igne in connection with the investigation.
- Except for Curo Living Ltd, no duty is undertaken, or warranty or representation made to any party in respect of the opinions, advice, recommendations, or conclusions contained in this report.
- All work carried out in preparing this report has used and is based upon Igne's professional knowledge and understanding of the current (January 2026) relevant standards, codes, technology, and legislation. Changes in the above may cause the opinion, advice, recommendations, or conclusions set out in this report to become inappropriate or incorrect. However, in giving its opinions, advice, conclusions, and recommendations, Igne have considered pending changes to environmental legislation and regulations of which they are currently aware. Following delivery of this report, Igne will have no obligation to advise the



Clients of any such changes or of their repercussions. It may therefore be necessary to review the opinions, advice, recommendations and conclusions of this report following future changes to legislation.

- d) Some of the information referenced and included in the report has been provided by third parties and whilst Igne has no reason to doubt the accuracy, these items have not been verified. Igne accepts no responsibility for errors within third party materials referenced and presented in this report.
- e) Igne acknowledge that they are being retained, in part, because of their knowledge and experience with respect to geotechnical and environmental matters. Igne will consider and analyse all information provided in the context of their knowledge and experience and all other relevant information known to Igne. To the extent that the information provided to Igne is not inconsistent and/or incompatible therewith, Igne shall be entitled to rely upon and assume, without independent verification, the accuracy and completeness of all such information and shall have no obligation to verify the accuracy and completeness of such information,
- f) The opinions expressed in this report are based on the ground conditions revealed by investigation, together with an assessment of the site and of laboratory test results. Whilst opinions may be expressed relating to sub-soil conditions in parts of the site not investigated, for example between sampling positions, these are only for guidance and no liability can be accepted for their accuracy.
- g) The content of this report represents the professional opinion of experienced geotechnical and environmental specialists/consultants. Igne does not provide associated legal advice and appropriate legal advice should be sought if required.
- h) The lack of evidence of the presence of hazardous materials, voids or obstructive features at the subject property does not guarantee the absence of such materials, rather it indicates only that none were found as a result of the services provided.

Igne

30510106/2B – February 2026

1. E01 South
2. Retaining Wall
3. Courtyard
4. S278
5. E03
6. E02
7. Follows 278

SITE BOUNDARY

Approximate verification pit locations in areas where imported soils had been placed

KEY

- Proposed Site Boundary
- Hardscape Kellen
Silver grey aggregate PCC paving with contrasting tactile paving
- Hardscape Kellen
Mid grey paving units 200 x 100
- Marshalls Model
Permeable PCC flag paving
- Clay paving to match existing
- Tarmac road surface
- Tactile paving
- Tarmac Pavement surface
- Proposed planting
Groundcover and shrubs
- Proposed planting
Lawn
- Conservation Kerb 100mm height
- Conservation Kerb 50mm height
- Kerb edging - flush finish
- Metal edging
- Proposed planting
Trees
- Existing Trees
Retained
- Existing Trees
Removed
- Retained Tree
- Lighting column location
- Fire Hydrant location

NOTES:
This drawing is the copyright of Hyland Edgar Driver. It must not be copied or reproduced without written permission. All dimensions are to be taken from this drawing. The user must visit the site and be responsible for any discrepancies between the works shown on this drawing and the actual site conditions.

REVISIONS

REV	DESCRIPTION	DATE	BY
C3	Additional parking bay along Bank St	21/02/25	AW
C2	Fire Hydrant locations added	16/03/23	AW
C1	Issue for information / approval	11/03/22	AW
P03	Updates to kerb layout and RSA response	01/03/22	AW
P02	Updates to E02 & E03, lighting columns added	06/10/21	AW
P01	Stage 4 Issue	18/03/21	JSW

H | E | D
Hyland Edgar Driver
Landscape Architects and Urban Designers
One Wessley Way, Gorden Common, Winchester, Hampshire, SO21 19JG
Telephone: 01962 711660 Fax: 01962 713942

PROJECT
THE CHARTER
HORN YARD AND MARKET SQUARE

SUBJECT
General Arrangement Landscape Plan

Scale: 1:250
0 2.5m 5m 10m



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Figure 1 Site Plan
Scale as shown
30510106/2A: Gravesend
Prepared for: Curo Living Ltd



4th Floor 17 Lichfield St, Walsall, WS1 1TU
Telephone: +44(0)121 344 5885 email: enquiries.dts@igne.com

Plate 1

Photographic Record of HP1
30510106/2b: Gravesend
Prepared for: Curo Living



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Plate 2
Photographic Record of HP2
30510106/2b: Gravesend
Prepared for: Curo Living



HP3



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Plate 3
Photographic Record of HP3
30510106/2b: Gravesend
Prepared for: Curo Living



HP4



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Plate 4
Photographic Record of HP4
30510106/2b: Gravesend
Prepared for: Curo Living



APPENDIX 1

Contamination Laboratory Test Results (7 pages)

Certificate of Analysis

Certificate Number 26-01950

Issued: 17-Feb-26

Client DTS Raeburn Geotechnical & Environmental Eng
4th Floor
17 Lichfield Street
Walsall
WS1 1TU

Our Reference 26-01950

Client Reference ~ 30510168

Order No ~ 34118

Contract Title ~ Soil Validation, Gravesend

Description 4 Soil samples.

Date Received 28-Jan-26

Date Started 28-Jan-26

Date Completed 17-Feb-26

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

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

Approved By

A handwritten signature in black ink, appearing to read "R. Irfan".

Reyhan Irfan
Operations Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 26-01950

Client Ref ~ 30510168

Contract Title ~ Soil Validation, Gravesend

Lab No	2632662	2632663	2632664	2632665
Sample ID ~	HP1	HP2	HP3	HP4
Depth ~				
Other ID ~	Topsoil	Baselayer	Topsoil	Baselayer
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	23/01/2026	23/01/2026	23/01/2026	23/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	10	5.6	12	6.6
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.9	0.8	2.4	0.6
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	< 0.1	0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	20	44	22	14
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	23	35	24	12
Lead	DETSC 2301#	0.3	mg/kg	26	3.9	28	1.6
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	16	12	17	4.2
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	63	17	66	11
Inorganics							
pH	DETSC 2008#		pH	8.4	11.4	9.4	12.3
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2	< 0.1	0.3	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	0.2	< 0.1	0.4	< 0.1
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	150	430	120	28
Sulphide	DETSC 2024*	10	mg/kg	16	< 10	44	16
Sulphur as S, Total	DETSC 2320	0.01	%	0.04	0.06	0.06	0.05
Sulphate as SO4, Total	DETSC 2321#	0.01	%	0.07	0.18	0.07	0.12
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2	< 1.2	< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4	< 3.4	< 3.4	< 3.4
Aliphatic C5-C35: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	< 0.9	< 0.9	< 0.9	< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6	< 0.6	< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4	< 1.4	< 1.4	< 1.4
Aromatic C5-C35: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10
TPH Ali/Aro Total C5-C35: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10	< 10	< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 26-01950

Client Ref ~ 30510168

Contract Title ~ Soil Validation, Gravesend

Lab No	2632662	2632663	2632664	2632665
Sample ID ~	HP1	HP2	HP3	HP4
Depth ~				
Other ID ~	Topsoil	Baselayer	Topsoil	Baselayer
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	23/01/2026	23/01/2026	23/01/2026	23/01/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01	< 0.01	< 0.01	< 0.01
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.3	< 0.3	0.7	< 0.3

Summary of Asbestos Analysis Soil Samples

Our Ref 26-01950

Client Ref ~ 30510168

Contract Title ~ Soil Validation, Gravesend

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2632662	HP1 Topsoil	SOIL	NAD	none	Vicky Convery
2632663	HP2 Baselayer	SOIL	NAD	none	Vicky Convery
2632664	HP3 Topsoil	SOIL	NAD	none	Vicky Convery
2632665	HP4 Baselayer	SOIL	NAD	none	Vicky Convery

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-01950
 Client Ref ~ 30510168
 Contract ~ Soil Validation, Gravesend

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2632662	HP1 SOIL	23/01/26	GJ 60ml, PT 1L		
2632663	HP2 SOIL	23/01/26	GJ 250ml, GJ 60ml, PT 1L		
2632664	HP3 SOIL	23/01/26	GJ 250ml, GJ 60ml, PT 1L		
2632665	HP4 SOIL	23/01/26	GJ 250ml, GJ 60ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
 Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
 The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

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
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C5-C35	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C5-C35	EH_CU+HS_1D_AR
TPH Ali/Aro Total C5-C35	EH_CU+HS_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03