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VERIFICATION REPORT

FOR

**MORLEY AVENUE,
HARINGEY
N22 6NT**



JOMAS ASSOCIATES LTD

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Report Title: Verification Report for Morley Avenue, Haringey N22 6NT

Report Status: Final

Job No: P2855J2051b/JRO

Date: 26 March 2026

Quality Control: Revisions

Version	Date	Issued By	Comment
V2.0	30/03/2026	TE	Update to reflect client comments.

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1 INTRODUCTION

1.1 Terms of Reference

1.1.1 Aspire Commercial ("The Client") has commissioned Jomas Associates Ltd ('Jomas'), to produce a verification report for the site at Morley Avenue, Haringey N22 6NT following the installation of soft landscaping on site.

1.1.2 The site location plan is provided as Figure 1, Appendix 1.

1.2 Development

1.2.1 The site has undergone redevelopment comprising the demolition of the former domestic garages and the construction of a 2-storey residential property with associated garden space and soft landscaping. Proposed ground floor plans are presented as Figures 2-3.

1.2.2 Development permission has been granted by the London Borough of Haringey with a number of conditions relating to various requirements.

1.3 Background

1.3.1 Planning Condition 8 and 9 of application ref HGY/2021/0054, relates to land contamination matters.

1.3.2 Condition 8 states:

1.3.3 *"Before development commences other than for investigative work:*

a. Using the information already submitted in Desk Study/Preliminary Risk Assessment Report with reference P2855J2051/TE by Jomas Associates, an intrusive site investigation shall be conducted for the site using information obtained from the desktop study and Conceptual Model. The site investigation must be comprehensive enough to enable; a risk assessment to be undertaken, refinement of the Conceptual Model, and the development of a Method Statement detailing the remediation requirements.

b. The risk assessment and refined Conceptual Model shall be submitted, along with the site investigation report, to the Local Planning Authority which shall be submitted to, and approved in writing by, the Local Planning Authority prior to that remediation being carried out on site.

c. Where remediation of contamination on the site is required, completion of the remediation detailed in the method statement shall be carried out and;

d. A report that provides verification that the required works have been carried out, shall be submitted to, and approved in writing by the Local Planning Authority before the development is occupied.

Reason: To ensure the development can be implemented and occupied with adequate regard for environmental and public safety."

1.3.4 Condition 9 states:

1.3.5 *"If, during development, contamination not previously identified is found to be present at the site then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until a remediation strategy detailing how this contamination will be dealt with has been submitted to and approved in writing by the Local Planning Authority. The remediation strategy shall be implemented as approved.*

Reasons: To ensure that the development is not put at unacceptable risk from, or adversely affected by, unacceptable levels water pollution from previously unidentified contamination sources at the development site in line with paragraph 109 of the National Planning Policy Framework."

1.3.6 The planning decision notice is included within Appendix 2.

1.3.7 This report is intended to address the requirements of Condition 8 Part C and Condition 9 by providing confirmation of the completion of remedial measures and providing confirmation around uncharacterised contamination.

1.4 Previous Reports

1.4.1 A number of reports have been undertaken for the site by Jomas Associates, in support of discharge of this condition. Table 1.1 details previously issued reports pertaining to the site, which should be read in conjunction with this document:

Table 1.1: Previous Reports

Title	Author	Reference	Date
Desk Study/Preliminary Risk Assessment Report for Garages at Morley Avenue, Wood Green, London N22.	Jomas Associates Ltd	P2855J2051a	November 2020
Geo-environmental & Geotechnical Assessment Ground Investigation Report for Garages at Morley Avenue, Wood Green, London N22	Jomas Associates Ltd	P2855J2051a	May 2021

1.5 Ground Investigation

1.5.1 The ground investigation reported concentrations of lead, benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(ah)anthracene were detected in soils in excess of generic assessment criteria for the protection of human health within a 'residential with plant uptake' end-use scenario. No asbestos was detected within the samples screened on site.

1.5.2 No viable source of ground gas was identified by the Desk Study, and no evidence of extensive Made Ground or putrescible materials were reported during the investigation. On this basis, no formal ground gas protection measures were considered necessary.

1.5.3 The conclusions of the report indicated that remedial works were required to bring the site into a condition that could be considered suitable for the proposed use. The recommended measures comprised encapsulation of the impacted soils beneath a minimum 450mm cover layer over a geotextile membrane.

1.6 Limitations

1.6.1 Jomas Associates Ltd ('Jomas') has prepared this report for the sole use of Aspire Commercial in accordance with the generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon by any other party without the explicit written agreement of Jomas. No other third-party warranty, expressed or implied, is made as to the professional advice included in this report. This report must be used in its entirety.

1.6.2 The records search was limited to information available from public sources; this information is changing continually and frequently incomplete. Unless Jomas has actual knowledge to the contrary, information obtained from public sources or provided to Jomas by site personnel and other information sources, have been assumed to be correct. Jomas does not assume any liability for the misinterpretation of information or for items not visible, accessible or present on the subject property at the time of this study.

1.6.3 Whilst every effort has been made to ensure the accuracy of the data supplied, and any analysis derived from it, there may be conditions at the site that have not been disclosed by the investigation and could not therefore be taken into account. As with any site, there may be differences in soil conditions between exploratory hole positions. Furthermore, it should be noted that groundwater conditions may vary due to seasonal and other effects and may at times be significantly different from those measured by the investigation. No liability can be accepted for any such variations in these conditions.

2 IMPORTED SOIL COVER LAYER VERIFICATION

- 2.1.1 On 6th March 2026, a Jomas engineer attended the site to inspect and validate the areas of completed soft landscaping on site.
- 2.1.2 Four hand pits were completed within the areas of soft landscaping to examine the imported soils and obtain samples for testing.
- 2.1.3 Pit locations are as identified on Figure 6. Photographs of the validation visit are provided as Figure 7.
- 2.1.4 Table 2.1 below summarises the observations made.

Table 2.1: Imported Topsoil Observations

Pit ID	Observations
HTP1	GL – 0.55mbgl: Grass over blackish brown gravelly sand with rootlets. Sand is fine to medium. Gravel consists of fine to medium, sub-angular to sub-rounded flint and brick. (MADE GROUND) Membrane observed at 0.55mbgl. ES taken at 0.45mbgl.
HTP2	GL – 0.50mbgl: Grass over blackish brown slightly gravelly sand with rootlets. Sand is fine to medium. Gravel consists of fine to medium, sub-angular to sub-rounded flint and brick and some tree bark. (MADE GROUND) Membrane observed at 0.50mbgl. ES taken at 0.40mbgl.
HTP3	GL – 0.50mbgl: Grass over blackish brown slightly gravelly sand with rootlets and organic content. Sand is fine to medium. Gravel consists of fine to medium, sub-angular to sub-rounded flint, concrete and brick. (MADE GROUND) Membrane observed at 0.50mbgl. ES taken at 0.35mbgl.
HTP4	GL – 0.50mbgl: Grass over blackish brown gravelly sand with rootlets. Sand is fine to medium. Gravel consists of fine to medium, sub-angular to sub-rounded flint, plastic, concrete and brick. (MADE GROUND) Membrane observed at 0.50mbgl. ES taken at 0.30mbgl.

- 2.1.5 4No samples were submitted to a UKAS and MCERTS accredited laboratory for testing against a standard suite of common contaminants and asbestos. Details of the basic suite testing are provided in Table 2.2.

2.2 Verification Test Results

2.2.1 The results of the chemical testing are outlined below in Table 2.3 to **Error! Reference source not found.** The site specific criteria used to derive the relevant screening criteria are provided in Table 2.2.

2.2.2 Full laboratory test certificates are provided in Appendix 2.

Table 2.2: Site Specific Data

Input Details	Value
Land Use	Residential with plant uptake
Soil Organic Matter	1%

Table 2.3: Soil Laboratory Analysis Results – Metals, Metalloids, Phenol, Cyanide – Imported Topsoil

Determinand	Unit	No. samples tested	Screening Criteria	Min	Max	No. Exceeding
Arsenic	mg/kg	4	S4UL 37	10	13	0
Cadmium	mg/kg	4	S4UL 11	0.9	0.9	0
Chromium	mg/kg	4	S4UL 910	15	20	0
Lead	mg/kg	4	C4SL 200	100	110	0
Mercury	mg/kg	4	S4UL 40	<2.5	<2.5	0
Nickel	mg/kg	4	S4UL 180	16	17	0
Copper	mg/kg	4	S4UL 2400	45	71	0
Zinc	mg/kg	4	S4UL 3700	130	150	0
Total Cyanide ^B	mg/kg	4	CLEA v 1.06 33	<1	<1	0
Selenium	mg/kg	4	S4UL 250	<8	<8	0
Boron Water Soluble	mg/kg	4	S4UL 290	4.4	5.7	0
Phenols	mg/kg	4	S4UL 120	<1	<1	0

Notes: ^B Generic assessment criteria derived for free inorganic cyanide.

Table 2.4: Soil Laboratory Analysis Results – Polycyclic Aromatic Hydrocarbons (PAHs) – Imported Topsoil

Determinand	Unit	No. Samples Tested	Screening Criteria	Min	Max	No. Exceeding
Naphthalene	mg/kg	4	S4UL 2.3	<0.02	<0.20	0
Acenaphthylene	mg/kg	4	S4UL 170	<0.20	0.09	0
Acenaphthene	mg/kg	4	S4UL 210	<0.02	0.04	0

SECTION 2

IMPORTED SOIL COVER LAYER VERIFICATION

Determinand	Unit	No. Samples Tested	Screening Criteria	Min	Max	No. Exceeding	
Fluorene	mg/kg	4	S4UL	170	<0.02	0.03	0
Phenanthrene	mg/kg	4	S4UL	95	0.24	0.65	0
Anthracene	mg/kg	4	S4UL	2400	<0.20	0.21	0
Fluoranthene	mg/kg	4	S4UL	280	0.75	1.6	0
Pyrene	mg/kg	4	S4UL	620	0.7	1.4	0
Benzo(a)anthracene	mg/kg	4	S4UL	7.2	0.43	0.80	0
Chrysene	mg/kg	4	S4UL	15	0.41	0.63	0
Benzo(b)fluoranthene	mg/kg	4	S4UL	2.6	0.58	0.77	0
Benzo(k)fluoranthene	mg/kg	4	S4UL	77	0.26	0.37	0
Benzo(a)pyrene	mg/kg	4	S4UL	2.2	0.55	0.78	0
Indeno(123-cd)pyrene	mg/kg	4	S4UL	27	0.42	0.58	0
Dibenzo(ah)anthracene	mg/kg	4	S4UL	0.24	<0.20	0.13	0
Benzo(ghi)perylene	mg/kg	4	S4UL	320	0.40	0.55	0
Total PAH	mg/kg	4	-	-	5.1	9.4	-

Table 2.5: Soil Laboratory Analysis Results – Total Petroleum Hydrocarbons (TPH) – Imported Topsoil

TPH Band	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
C ₈ -C ₁₀	mg/kg	4	S4UL	27	<5.0	<5.0	0
>C ₁₀ -C ₁₂	mg/kg	4	S4UL	74	<5.0	<5.0	0
>C ₁₂ -C ₁₆	mg/kg	4	S4UL	140	6.7	7.3	0
>C ₁₆ -C ₂₁	mg/kg	4	S4UL	260	31	34	0
>C ₂₁ -C ₃₅	mg/kg	4	S4UL	1100	240	300	0
Total TPH	mg/kg	4	-	-	340	430	-

Note: *The lower value of guidelines for Aromatic/Aliphatics has been selected

2.3 Asbestos

2.3.1 In addition to the suites above, 4No samples were screened for the presence of asbestos.

2.3.2 No asbestos was detected in any of the samples tested.

2.4 Conclusions

- 2.4.1 As shown in the tables above, no contaminants included within the scheduled testing suites returned results above the relevant screening criteria.
- 2.4.2 On this basis the topsoil is considered suitable and safe for use on site within a “residential with plant uptake” end-use scenario.

3 CONCLUSIONS

3.1 Conclusions

- 3.1.1 The results of the validation work undertaken to date indicate that the remedial measures have been completed successfully and the site can be considered suitable for the proposed end use.

4 REFERENCES

British Standards Institution (2015) BS 3882 Specification for topsoil and requirements for use. BSI, London

British Standards Institution (2011) BS 10175 Code of practice for the investigation of potentially contaminated sites. BSI, London

British Standards Institution (2013) BS 8576 Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOC's), BSI, London

British Standards Institution BS 5930:2015+A1:2020 Code of practice for ground investigations. BSI, London

British Standards Institution (2015) BS 8485:2015 Incorporating corrigendum No.1 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings. BSI, London

CIRIA C665 (2007) Assessing risks posed by hazardous ground gases to buildings. CIRIA, London

CL:AIRE (2020) Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration. CL:AIRE, Buckinghamshire

Environment Agency (2020) Land contamination risk management (LCRM)

Environment Agency, NHBC & CIEH (2008) Guidance for the safe development of housing on land affected by contamination. R & D Publication 66. London: Environment Agency

LQM/CIEH S4ULs. LQM, 2014

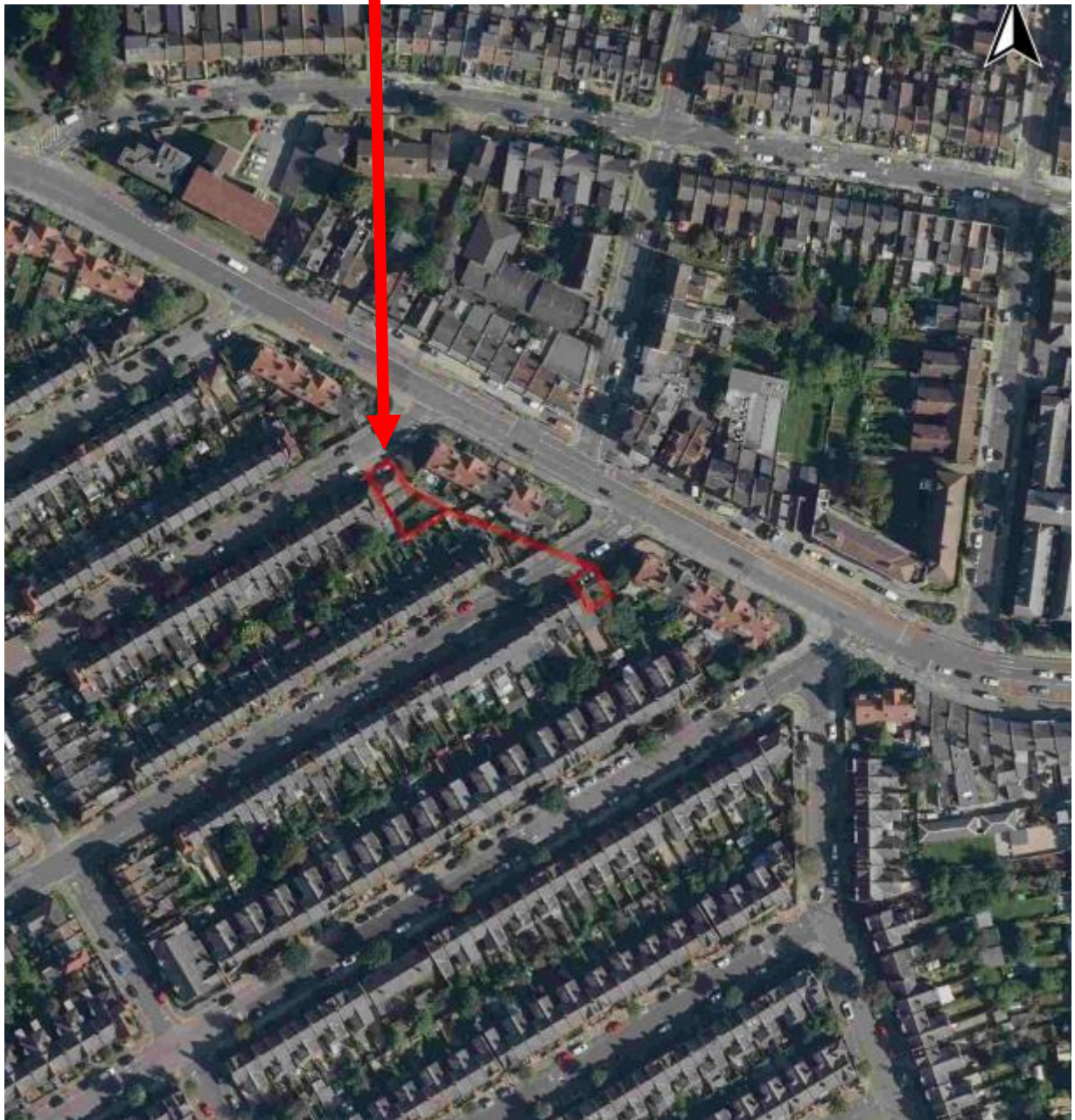
Ministry of Housing, Communities & Local Government: National Planning Policy Framework. February 2019.

APPENDICES

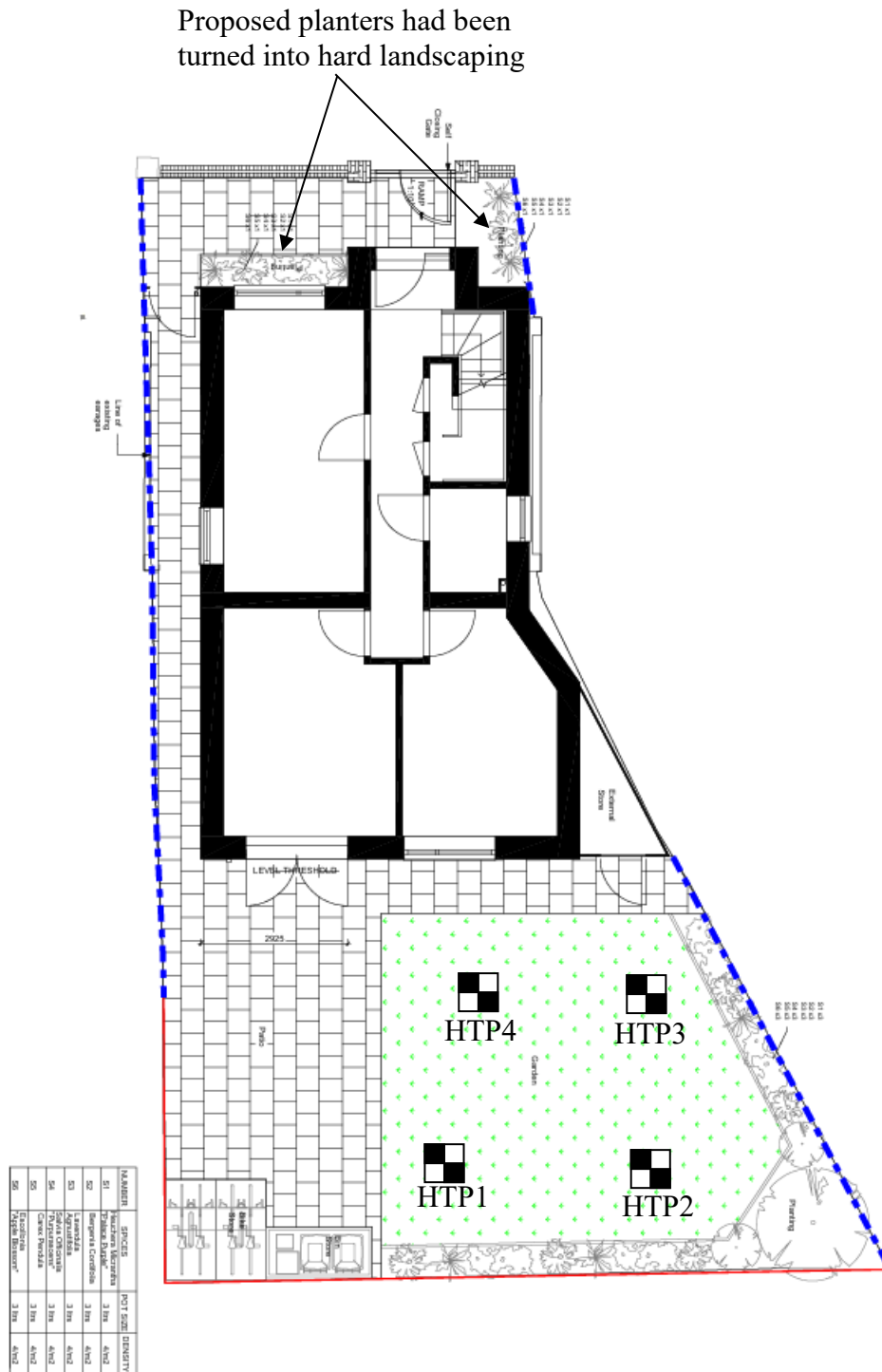
APPENDIX 1 – FIGURES

PROJECT NAME:	Garages at Morley Avenue	CLIENT:	London Borough of Haringey
TITLE:	Site Location Plan	PROJECT NO.	P2855J2051a
DATE:	November 2029	FIGURE:	1

Morley Avenue site



PROJECT NAME	Morley Avenue, Haringey	CLIENT	Aspire Commercial
TITLE	Topsoil Validation Sampling Plan	PROJECT NO.	P2855J2051
DATE	March 2026	FIGURE NO.	2



APPENDIX 2 – LABORATORY CHEMICAL TEST DATA (TOPSOIL VALIDATION TESTING)

Analytical Test Report **E26/03315/JOM/26-10368**

Clients Project Reference Morley Avenue, Haringey J2051

Clients Order Number P2855JJ2051.7

Sample(s) Analysed 4

Sample(s) received / instructed 11/03/2026 / 11/03/2026

Sample(s) Tested 11/03/2026 to 20/03/2026

Report issued 20/03/2026

Report issue number 1

Tested on Behalf of

Jomas Associates
Unit 24 Sarum Complex,
Salisbury Road,

UB8 2RZ

Signed



James Gane
Analytical Services Manager

Notes:

General

This report shall not be reproduced except in full

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

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

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.

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.

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.

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

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

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

U = UKAS Accreditation, M = MCERTS Accreditation, N = Unaccredited, SC = Subcontracted

E26/03315/JOM/26-10368

Morley Avenue, Haringey J2051

Analytical Test Results - ENV Analysis Solids

Lab Reference					727845	727846	727847
Client Sample ID					ES	ES	ES
Client Sample Location					HTP1	HTP2	HTP3
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Depth - Top (m)					0.45	0.4	0.35
Depth - Bottom (m)					0.45	0.4	0.35
Date of Sampling					06/03/2026	06/03/2026	06/03/2026
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Arsenic	ICPMETS	mg/kg	10	M	11	10	11
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	4.4	4.7	5.7
Cadmium	ICPMETS	mg/kg	0.2	M	0.9	0.9	0.9
Chromium (Total)	ICPMETS	mg/kg	1	U	15	15	17
Copper	ICPMETS	mg/kg	2	M	45	51	57
Lead	ICPMETS	mg/kg	1.5	M	110	100	110
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	16	16	16
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	130	130	150
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.07	0.09	0.08
pH	PHS	pH units	1	M	7.9	8.2	8.1
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	< 10	96	71
Asbestos	ASB	p/a	-	U	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.20	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	0.06	< 0.20	0.06
Anthracene	PAHASRDS	mg/kg	0.02	U	0.13	< 0.20	0.11
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.49	0.80	0.43
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.57	0.72	0.55
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.60	0.75	0.58
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.40	0.46	0.41
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.26	0.37	0.26
Chrysene	PAHASRDS	mg/kg	0.02	M	0.44	0.63	0.41
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	0.10	< 0.20	0.09
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.95	1.6	0.75
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.20	< 0.02
Indeno[1,2,3-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.42	0.53	0.42
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.20	< 0.02

E26/03315/JOM/26-10368

Morley Avenue, Haringey J2051

Analytical Test Results - ENV Analysis Solids

Lab Reference	727848
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Client Sample ID	ES
Client Sample Location	HTP4
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	0.3
Depth - Bottom (m)	0.3
Date of Sampling	06/03/2026
Time of Sampling	-
Sample Matrix	Sand

Determinant	Code	Units	LOD	Accreditation	
Arsenic	ICPMETS	mg/kg	10	M	13
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	5.7
Cadmium	ICPMETS	mg/kg	0.2	M	0.9
Chromium (Total)	ICPMETS	mg/kg	1	U	20
Copper	ICPMETS	mg/kg	2	M	71
Lead	ICPMETS	mg/kg	1.5	M	110
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5
Nickel	ICPMETS	mg/kg	1	M	17
Selenium	ICPMETS	mg/kg	8	N	< 8.0
Zinc	ICPMETS	mg/kg	2	M	140
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.14
pH	PHS	pH units	1	M	8.2
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	190
Asbestos	ASB	p/a	-	U	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	0.04
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	0.09
Anthracene	PAHASRDS	mg/kg	0.02	U	0.21
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.71
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.78
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.77
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.55
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.36
Chrysene	PAHASRDS	mg/kg	0.02	M	0.63
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	0.13
Fluoranthene	PAHASRDS	mg/kg	0.02	M	1.5
Fluorene	PAHASRDS	mg/kg	0.02	M	0.03
Indeno[1,2,3-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.58
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02

E26/03315/JOM/26-10368

Morley Avenue, Haringey J2051

Analytical Test Results - ENV Analysis Solids

Lab Reference					727845	727846	727847
Client Sample ID					ES	ES	ES
Client Sample Location					HTP1	HTP2	HTP3
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Depth - Top (m)					0.45	0.4	0.35
Depth - Bottom (m)					0.45	0.4	0.35
Date of Sampling					06/03/2026	06/03/2026	06/03/2026
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.29	0.65	0.24
Pyrene	PAHASRDS	mg/kg	0.02	M	0.85	1.4	0.70
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	5.6	9.4	5.1
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	6.7	7.0	7.1
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	31	32	31
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	240	250	250
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	63	67	69
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	40	42	41
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	300	320	320
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	340	360	370
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected	Neither Detected	Neither Detected

E26/03315/JOM/26-10368

Morley Avenue, Haringey J2051

Analytical Test Results - ENV Analysis Solids

Lab Reference	727848
---------------	--------

Client Sample ID	ES
Client Sample Location	HTP4
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	0.3
Depth - Bottom (m)	0.3
Date of Sampling	06/03/2026
Time of Sampling	-
Sample Matrix	Sand

Determinant	Code	Units	LOD	Accreditation	
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.54
Pyrene	PAHASRDS	mg/kg	0.02	M	1.3
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	8.1
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	7.3
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	34
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	300
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	85
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	44
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	390
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	430
Petrol or Diesel contamination?	FUELID	-	-	N	Neither Detected

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Analytical Test Results - EPHVPHS

Lab Reference					727845	727846	727847
Client Sample ID					ES	ES	ES
Client Sample Location					HTP1	HTP2	HTP3
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Depth - Top (m)					0.45	0.4	0.35
Depth - Bottom (m)					0.45	0.4	0.35
Date of Sampling					06/03/2026	06/03/2026	06/03/2026
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0	< 5.0	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	6.7	7.0	7.1
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	31	32	31
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	240	250	250
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	63	67	69
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	40	42	41
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	300	320	320
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	340	360	370

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Analytical Test Results - EPHVPHS

Lab Reference	727848
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Client Sample ID	ES
Client Sample Location	HTP4
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	0.3
Depth - Bottom (m)	0.3
Date of Sampling	06/03/2026
Time of Sampling	-
Sample Matrix	Sand

Determinant	Code	Units	LOD	Accreditation	
Total TPH (>C8 to C10) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C10 to C12) [1]	TPHS	mg/kg	5	M	< 5.0
Total TPH (>C12 to C16) [1]	TPHS	mg/kg	5	M	7.3
Total TPH (>C16 to C21) [1]	TPHS	mg/kg	5	M	34
Total TPH (>C21 to C35) [1]	TPHS	mg/kg	5	M	300
Total TPH (>C35 to C40) [1]	TPHS	mg/kg	5	M	85
Total TPH (>C10 to C21) [1]	TPHS	mg/kg	10	M	44
Total TPH (>C21 to C40) [1]	TPHS	mg/kg	10	M	390
Total TPH (>C8 to C40) [1]	TPHS	mg/kg	15	M	430

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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 (%)
727845	ES	HTP1	SOIL	-	Dark brown gravelly silty sand with occasional organic matter	27	< 0.1	89
727846	ES	HTP2	SOIL	-	Dark brown gravelly silty sand with occasional organic matter	32	12	89
727847	ES	HTP3	SOIL	-	Dark brown gravelly silty sand with occasional organic matter	32	7.9	88
727848	ES	HTP4	SOIL	-	Dark brown gravelly silty sand with occasional organic matter	34	< 0.1	89

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Analysis Methodologies - Please refer to sample comments page (if present) for any changes to methods Methods

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
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"
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
FUELID	Chromatograph	-	-	In house review of scheduled hydrocarbon analysis based on chromatographs, results are qualitative and indicative only
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
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)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
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
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Determination of total phenols in soil using Skalar segmented flow analyser
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Determination of Water soluble Boron in soils via ICP

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HWOL TPH Acronym Index

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

Key of Codes	
[1]	EH_1D_TOTAL
[2]	EH_CU_1D_TOTAL
[3]	EH_CU+HS_1D_TOTAL
[4]	EH_1D+HS_MS_TOTAL
[5]	HS_MS_1D_AL
[6]	HS_MS_1D_AR
[7]	HS_MS_1D_TOTAL
[8]	EH_CU_1D_AL
[9]	EH_CU_1D_AR
[10]	EH_2D+HS_1D_TOTAL
[11]	EH_CU_2D+HS_1D_TOTAL
[12]	EH_2D_TOTAL
[13]	EH_2D_AL
[14]	EH_2D_AR
[15]	EH_CU_2D_TOTAL
[16]	EH_CU_2D_AL
[17]	EH_CU_2D_AR

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