





Entire Houze Ltd.

Verification Report

11-12 Grenville Street

London

WC1N 1LZ

Report No: 23-12-03

December 2023



Geo-Integrity, 4 Church Street, Maids Moreton, Bucks. MK18 1QE Landline: (01280) 816409 Mob.: 07858 367 125 Email:- murraybateman@geointegrity.co.uk





DOCUMENT RECORD

Report Title

Verification Report

Project Address 11-12 Grenville Street, London, WC1N 1LZ

Project Number

23-12-03

Client Company Name

Entire Houze Ltd.

Issue No Date	Status	Prepared by	Checked by
1	Draft	Lee Ashworth B.Sc. M.Sc. F.G.S Engineering Geologist	Murray Bateman M.Sc. DIC C.Geol Pg. Cert. Director
	report	SIGNATURE	SIGNATURE
December 2023	Tepon	Cast	Munay Patoma
1		Lee Ashworth B.Sc. M.Sc. F.G.S Engineering Geologist	Murray Bateman M.Sc. DIC C.Geol Pg. Cert. Director
	FINAL		
	report	SIGNATURE	SIGNATURE
December 2023		Carr	Munay Patoma

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VERIFICATION REPORT

1 FACTUAL

1.1 INTRODUCTION

Geo-Integrity Ltd were commissioned by Haim of Entire Houze Ltd. on the 5th of December 2023 via email instruction, to undertake a verification report at 11-12 Grenville Street, WC1N 1LZ. This verification report supersedes the previous verification report undertaken by Geo-Integrity Ltd. ref. 23-10-12. The previous verification report was undertaken based solely on photographic evidence, however this verification report includes the additional testing of the basement formation level soils as requested by the Land Contamination Team at Camden.

This verification report is likely to be submitted to the Camden Council planning authority in order to discharge planning conditions in relation to planning application 2021/6078/P. As such, it describes the work undertaken to bring the site to a condition suitable for the intended use by removing unacceptable risks to human health, buildings (and other property) and the natural and historical environment.

Previously a Phase I Desk Study and Contaminated Land Report was undertaken by Geo-Integrity ref. 21-08-12, dated January 2021. In addition, a basement impact risk assessment was undertaken by Risk Management Ltd. (ref. RML 6065) dated July 2016 which included chemical testing. Both reports identified that there may be a risk to Human Health and construction workers at the site, due to elevated lead identified within the Made Ground at the site.

In addition, it was agreed with the land contamination team of Camden that there may also be a risk of TPH and VOC's from the previous use as a domestic garage. A remedial method statement was subsequently undertaken by Geo-Integrity Ltd. (ref. 22-01-03) outlining the remedial measures required to make the site suitable for end users.

The site is centred at National Grid Reference TQ 30368 82163.

The objectives of this remedial scheme report are:-

Briefly summarise the previous site investigation and desk study work undertaken.

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To describe all works currently undertaken.





1.2 DEVELOPMENT ON SITE

The proposed development includes the change of use of upper floor offices class (E) to residential (C3) use to provide 5 x residential units (1 x studio, 3 x 1 bed and 1 x 2 bed), demolition of existing rear garage and erection of a 2 storey 2 bed dwelling with basement, consolidation of the existing ground floor retail and cafe (E) to provide a replacement retail/restaurant (E) and installation of replacement kitchen extract plant; erection of a 1st to 3rd floor rear infill extension and external alterations to the front elevation including reopening of the side entrance door, replacement windows, shopfront and roof.

1.3 SITE SETTING

The site is located in the West-end of London, within the district of Bloomsbury, positioned along the western side of Grenville Street.

The site consists of two three storey terraced buildings intersected by Colonnade (road) trending east-west which passes through the two buildings, via a cantilevered section on the first floor.

1.4 PREVIOUS INVESTIGATION (REF. RML 6065)

1.4.1 Ground Conditions

The site and laboratory test work revealed that the general succession of strata can be represented:

Strata	Top Depth (m bgl)	Bottom Depth (m bgl)
Concrete	0.00	0.15
Made Ground	0.15	1.80
Lynch Hill Gravel Member	1.80	3.60
Weathered London Clay Formation	3.60	>6.00

Made Ground soils have been proven to a depth of 1.80m bgl by the previous investigation undertaken by Risk Management Ltd, reference RML 6065, dated July 2016.

Groundwater was not encountered during the intrusive works down to the base of the exploratory hole in excess of 6.00m bgl. Subsequent gas/groundwater monitoring also recorded no groundwater. However, it is stated perched water may occur at the base of the Lynch Hill Gravel Member during

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wetter periods. Additional groundwater monitoring was undertaken in April and May 2017 which encountered groundwater at 3.70m bgl which is stated to be at least 1m below the new basement level.

1.4.2 Geo-Environmental Conditions

1.4.2.1 Soil Conditions

The previous investigation undertook a preliminary contamination assessment using the sourcepathway-protection-receptor approach. Two samples of Made Ground were collected from BH1 at depths of 0.15m and 1.00m bgl. The samples were tested for a range of contaminants including heavy metals, total petroleum hydrocarbons, PAH's and BTEX and compared against limiting values for a residential without plant uptake land-use scenario. Both samples recorded single exceedances of lead. Lead was recorded at 1340mg/kg and 1380mg/kg with the relevant GAC for lead being 310mg/kg for a residential without plant uptake land-use scenario.

2 REMEDIAL MEASURES RECOMMENDED

2.1.1 Clean Cover System within Soft Landscaping Areas

Elevated lead has been encountered within the Made Ground soils and it has been established that there is a significant risk to both end users of the site, and the construction workers involved in the development of the site from the Made Ground. The main pathway of concern for these contaminants has been shown to be direct soil ingestion and dermal contact.

To break this primary exposure pathway to end site users, it was recommended a clean cover system would be required in any proposed soft landscaping areas. This cover system is not required in areas of hardstanding as this will break the pathway between impacted soils and site users.

3 VERIFICATION

The development does not include any areas of soft landscaping therefore the remedial measures stated above were not required.

Plans outlining the site boundary and development shown in Appendix A verify the site is covered entirely by hardstanding as such no remedial cover system is required.

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4 FURTHER ASSESSMENT OF THE BASEMENT FORMATION SOILS

4.1 RECOMMENDATIONS BY THE CONTAMINATED LAND TEAM OF CAMDEN

The remedial method statement previously outlined requirements by the Contaminated Land Team of Camden:

- It is required when excavating the basement, a photographic record of the nature of the formation level soils must be taken.
- Furthermore, at least two samples should be taken from the formation level soils and specifically tested for TPH and VOC's. This is required due to a potential risk of vapour given the previous land-use as a domestic garage. The recorded values should be compared against the relevant GAC for residential without home-grown produce.

4.2 SITE WORK

During the excavation of the basement a photographic record was taken of the nature of the formation level soil.

The photographic record is shown in Appendix A. The photographs indicate the presence of Made Ground comprising visible fragments of brick and metal, overlying natural sand and gravel deposits interpreted to be the Lynch Hill Gravel Member. No obvious visible staining or odour was reported.

On the 7th of December 2023 a hand auger borehole was put down using an electric corer adjacent to the basement within the basement of 12 Grenville Street. Drilling through the basement of 11 Grenville Street was not possible to due existing tanking however ground conditions are anticipated to closely match those of the adjacent basement at 12 Grenville Street, including the risk of vapour ingress. A log of the ground conditions was undertaken and two samples collected from the formation level soils (Logs and photographs are included within Appendix A).

The ground conditions encountered were concrete down to 0.15m bgl, overlying granular fill down to 0.45m bgl, overlying Reworked Ground comprising soft, brown, silty, slightly gravelly clay down to the base of the exploratory hole in excess of 0.95m bgl.

4.2.1 Chemical Criteria

Geo-environmental laboratory testing was undertaken on the two selected samples within the formation level soils underlying the concrete and granular fill at depths of 0.50m and 0.90m bgl. The testing was carried out at a MCERTS and UKAS accredited laboratory. The results are presented in the Appendices.

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The selected soil samples were screened against the criteria set out, to ensure the site is fit for purpose for a "Residential without the consumption of home-grown produce" land use scenario, as requested by the Contamination Land Team at Camden. All samples tested recorded concentrations below the relevant GACs, in fact all recorded below detectable limits. The results are included in the Appendices.

5 CONCLUSION

This verification report has identified the development does not include any areas of soft landscaping; therefore, the remedial cover layers were not required.

The additional testing of formation level soils requested by the Contaminated Land Team at Camden proved no significantly elevated levels of TPH or VOCs, in fact all were recorded below detectable limits. Therefore, it is considered the risk of vapours from the historical land-use as a domestic garage is very low and as such no further remedial measures will be required.





6 **REFERENCES**

.

National House Building Council (NHBC) Standards, Chapter 4.2 Building Near Trees. 2011.

National House Building Council (NHBC) Standards, Chapter 4.1 Land Quality – Managing Ground Conditions. 2011.

Environment Agency, 'The Model Procedures for the Management of Land Contamination', CLR 11, 2004

Health and Safety Executive (HSE), "Protection of Workers and the General Public during Development of Contaminated Land" HS(G) 66. HMSO London 1991.

BS 1377 : 1990 : Methods of test for soils for civil engineering purposes. British Standards Institution.

BS 5930 : 2015 : Code of practice for ground investigations. British Standards Institution.





APPENDIX A

December 2023

Report No.:- 23-12-03









December 2023

SITE LOCATION PLAN

Report No:- 23-12-03





Metres 0 5 10 15 20 25 50

Block Plan Scale 1:500

Drawing Number:	1112GS-PP3-00
Drawing Title:	Site Map & Block Plan
Project Title:	11-12 Grenville Street,
	London, WC1N 1LZ
Applicant:	11-12 Grenville Street Ltd.
Date:	08.12.2021



works, and shall immediately inform the architect if any work shown on this drawing is not in accordance with the relevant codes of practice recognised as good practice throughout the industry or if it does not comply with the relevant local authority bye-laws or building regulations.

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Additional Notes	REA	DAIL	Initials	s RE	VISION		ZUNE
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						London, WC1N 1LZ	LEVEL
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	_		_	_		CLIENT	
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			_				SCALE
			-	-			1:50

DATE

21/03/2022 MSS

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PROJECT TITLE 11-12 Grenville St., London, WC1N 1LZ





Photographic Record of the Formation Level Soil



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SITE PHOTOGRAPHS

23-12-03







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SITE PHOTOGRAPHS

23-12-03







December 2023

SITE PHOTOGRAPHS

23-12-03







Photo showing 11-12 Grenville Street



Photo showing the borehole

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SITE PHOTOGRAPHS

23-12-03







Photo showing the samples taken.

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SITE PHOTOGRAPHS

23-12-03

		www.go info@g 01280	eo-integrity.co.uk jeo-integrity.co.uk 816409			Site 11-12 Grenville Street, Lor	ndon, NW1 2DU	Trial Pit Number HA101
Machine : H Method : E	Hand Auger Electric Hand Corer	Dimensi	ons	Ground	Level (mOD)	Client Entire Houze		Job Number 23-12-03
		Location	ו (Handheld GPS)	Dates 07	7/12/2023	Engineer Lee Ashworth		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Record	ds (mOD)	Depth (m) (Thickness)	D	escription	Legend S
0.50	D1				(0.15) (0.15) (0.15) (0.30) (0.30) (0.30) (0.45) (0.50) (0.50)	Adhesive Tiles over CONG MADE GROUND - Loose Gravel is fine to coarse flir REWORKED GROUND S CLAY. Gravel is lignite	ORETE	ally * * * * *
0.90	D2				- 0.95 	Complete at 0.95m		
Plan	· ·		· ·			Remarks		
 	· ·	•	· ·	 	· ·			
								N AGS
		-	-			Scale (approx) 1:10	Logged By HF	Figure No. 23-12-03.HA101

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🔅 eurofins

Chemtest

Eurofins Chemtest Ltd Depot Road Newmarket CB8 0AL Tel: 01638 606070 Email: info@chemtest.com

Report No.:	23-40916-1		
Initial Date of Issue:	15-Dec-2023		
Re-Issue Details:			
Client	Geo Integrity		
Client Address:	West Works Playing Field Road Westbury Brackley NN13 5LA		
Contact(s):	Lee Ashworth		
Project	23-12-03 11-12 Grenville Street, London		
Quotation No.:	Q23-33250	Date Received:	11-Dec-2023
Order No.:		Date Instructed:	11-Dec-2023
No. of Samples:	2		
Turnaround (Wkdays):	4	Results Due:	14-Dec-2023
Date Approved:	15-Dec-2023		
Approved By:			
sont			

Details:

Stuart Henderson, Technical Manager



Client: Geo Integrity		Che	ntest Jo	23-40916	23-40916	
Quotation No.: Q23-33250	(Chemte	st Sam	1743732	1743733	
		Sa	ample Lo	ocation:	HA101	HA101
			Sampl	e Type:	SOIL	SOIL
			Top Dep	oth (m):	0.50	0.90
			Date Sa	ampled:	07-Dec-2023	07-Dec-2023
Determinand	Accred.	SOP	Units	LOD		
Moisture	N	2030	%	0.020	18	15
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones
Soil Texture	Ν	2040		N/A	Clay	Clay
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	< 1.0
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10
Dichlorodifluoromethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Chloromethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
Vinyl Chloride	М	2760	µg/kg	1.0	< 1.0	< 1.0
Bromomethane	М	2760	µg/kg	20	< 20	< 20
Chloroethane	U	2760	µg/kg	2.0	< 2.0	< 2.0
Trichlorofluoromethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloroethene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloroethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5.0	< 5.0	< 5.0
Trichloromethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
Tetrachloromethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Benzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichloroethane	М	2760	µg/kg	2.0	< 2.0	< 2.0
Trichloroethene	N	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichloropropane	М	2760	µg/kg	1.0	< 1.0	< 1.0
Dibromomethane	М	2760	µg/kg	1.0	< 1.0	< 1.0
Bromodichloromethane	М	2760	µg/kg	5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10
Toluene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10
1,1,2-Trichloroethane	М	2760	µg/kg	10	< 10	< 10
Tetrachloroethene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2.0	< 2.0	< 2.0

Client: Geo Integrity	Chemtest Job No.:			23-40916	23-40916	
Quotation No.: Q23-33250	Chemtest Sample ID.:			1743732	1743733	
		Sa	ample Lo	ocation:	HA101	HA101
			Sampl	e Type:	SOIL	SOIL
			Top Dep	oth (m):	0.50	0.90
			Date Sa	ampled:	07-Dec-2023	07-Dec-2023
Determinand	Accred.	SOP	Units	LOD		
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10
1,2-Dibromoethane	М	2760	µg/kg	5.0	< 5.0	< 5.0
Chlorobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	М	2760	µg/kg	2.0	< 2.0	< 2.0
Ethylbenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
m & p-Xylene	М	2760	µg/kg	1.0	< 1.0	< 1.0
o-Xylene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Styrene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1.0	< 1.0	< 1.0
Isopropylbenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Bromobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
2-Chlorotoluene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50
1,2,4-Trichlorobenzene	М	2760	µg/kg	1.0	< 1.0	< 1.0
Hexachlorobutadiene	N	2760	µg/kg	1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	М	2760	µg/kg	1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	М	2790	mg/kg	0.50	< 0.50	< 0.50
Phenol	М	2790	mg/kg	0.50	< 0.50	< 0.50
2-Chlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	М	2790	mg/kg	0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	М	2790	mg/kg	0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	М	2790	mg/kg	0.50	< 0.50	< 0.50
2-Methylphenol	М	2790	mg/kg	0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	М	2790	mg/kg	0.50	< 0.50	< 0.50
Hexachloroethane	М	2790	mg/kg	0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	М	2790	mg/kg	0.50	< 0.50	< 0.50

Client: Geo Integrity		Che	mtest Jo	23-40916	23-40916	
Quotation No.: Q23-33250	Chemtest Sample ID.:				1743732	1743733
		Sample Location:				HA101
			Sample	е Туре:	SOIL	SOIL
			Тор Dep	oth (m):	0.50	0.90
			Date Sa	ampled:	07-Dec-2023	07-Dec-2023
Determinand	Accred.	SOP	Units	LOD		
4-Methylphenol	М	2790	mg/kg	0.50	< 0.50	< 0.50
Nitrobenzene	Ν	2790	mg/kg	0.50	< 0.50	< 0.50
Isophorone	М	2790	mg/kg	0.50	< 0.50	< 0.50
2-Nitrophenol	Ν	2790	mg/kg	0.50	< 0.50	< 0.50
2,4-Dimethylphenol	М	2790	mg/kg	0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	М	2790	mg/kg	0.50	< 0.50	< 0.50
2,4-Dichlorophenol	Ν	2790	mg/kg	0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Naphthalene	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Chloroaniline	Ν	2790	mg/kg	0.50	< 0.50	< 0.50
Hexachlorobutadiene	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	Ν	2790	mg/kg	0.50	< 0.50	< 0.50
2-Methylnaphthalene	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.50	< 0.50	< 0.50
2-Chloronaphthalene	М	2790	mg/kg	0.50	< 0.50	< 0.50
2-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50
Acenaphthylene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Dimethylphthalate	М	2790	mg/kg	0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.50	< 0.50	< 0.50
Acenaphthene	М	2790	mg/kg	0.50	< 0.50	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50
Dibenzofuran	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	М	2790	mg/kg	0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.50	< 0.50	< 0.50
Fluorene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Diethyl Phthalate	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Nitroaniline	N	2790	mg/kg	0.50	< 0.50	< 0.50
Azobenzene	М	2790	mg/kg	0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	М	2790	mg/kg	0.50	< 0.50	< 0.50
Hexachlorobenzene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Phenanthrene	M	2790	mg/kg	0.50	< 0.50	< 0.50
Anthracene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Carbazole	М	2790	mg/kg	0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50
Fluoranthene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Pyrene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Butvlbenzvl Phthalate	N	2790	ma/ka	0.50	< 0.50	< 0.50

Client: Geo Integrity		Chei	ntest Jo	b No.:	23-40916	23-40916
Quotation No.: Q23-33250	(Chemte	st Sam	ole ID.:	1743732	1743733
		Sa	mple Lo	ocation:	HA101	HA101
			Sample	e Type:	SOIL	SOIL
			Тор Dep	oth (m):	0.50	0.90
			Date Sa	mpled:	07-Dec-2023	07-Dec-2023
Determinand	Accred.	SOP	Units	LOD		
Benzo[a]anthracene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Chrysene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	2790	mg/kg	0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Benzo[k]fluoranthene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Benzo[a]pyrene	М	2790	mg/kg	0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	М	2790	mg/kg	0.50	< 0.50	< 0.50

Test Methods

SOP	Title	Parameters included	Method summary		
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.		
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930		
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3- band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID		
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.		
2790	Semi-Volatile Organic Compounds (SVOCs) in Soils by GC-MS	Semi-volatile organic compounds(cf. USEPA Method 8270)	Acetone/Hexane extraction / GC-MS		

Report Information

Кеу	
U	UKAS accredited
Μ	MCERTS and UKAS accredited
Ν	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
Т	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request None of the results in this report have been recovery corrected All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently

corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis All Asbestos testing is performed at the indicated laboratory Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A Date of sampling not supplied
- B Sample age exceeds stability time (sampling to extraction)
- C Sample not received in appropriate containers
- D Broken Container
- E Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt All water samples will be retained for 14 days from the date of receipt Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to: <u>customerservices@chemtest.com</u>