

Ticket No	Date	Item	Quantity	Unit
5168	18/08/2021	Madeground/Asbestos	1	load
5169	18/08/2021	Madeground/Asbestos	1	load
5170	18/08/2021	Madeground/Asbestos	1	load
5171	19/08/2021	Madeground/Asbestos	1	load
5172	19/08/2021	Madeground/Asbestos	1	load
5173	19/08/2021	Madeground/Asbestos	1	load
5174	19/08/2021	Madeground/Asbestos	1	load
5176	20/08/2021	Madeground/Asbestos	1	load
5177	20/08/2021	Madeground/Asbestos	1	load
5178	20/08/2021	Madeground/Asbestos	1	load
5451	02/09/2021	Madeground/Asbestos	1	load
5420	07/09/2021	Madeground/Asbestos	1	load
5421	07/09/2021	Madeground/Asbestos	1	load
			13	
5423	08/09/2021	Tarmac/Asbestos	1	load
5424	08/09/2021	Tarmac/Asbestos	1	load
5425	08/09/2021	Tarmac/Asbestos	1	load
5426	08/09/2021	Tarmac/Asbestos	1	load
5427	09/09/2021	Madeground/Asbestos	1	load
5428	09/09/2021	Madeground/Asbestos	1	load
5429	09/09/2021	Madeground/Asbestos	1	load
5430	09/09/2021	Madeground/Asbestos	1	load
5433	10/09/2021	Madeground/Asbestos	1	load
5434	10/09/2021	Madeground/Asbestos	1	load
5435	10/09/2021	Madeground/Asbestos	1	load
5436	10/09/2021	Madeground/Asbestos	1	load
5437	13/09/2021	Madeground/Asbestos	1	load
5438	13/09/2021	Madeground/Asbestos	1	load
5439	13/09/2021	Madeground/Asbestos	1	load
5440	13/09/2021	Madeground/Asbestos	1	load
5441	14/09/2021	Madeground/Asbestos	1	load
5442	14/09/2021	Madeground/Asbestos	1	load
5443	14/09/2021	Madeground/Asbestos	1	load
5444	14/09/2021	Madeground/Asbestos	1	load
			20	
5455	15/10/2021	Madeground/Asbestos	1	load
5456	15/10/2021	Madeground/Asbestos	1	load
5457	15/10/2021	Madeground/Asbestos	1	load
5458	15/10/2021	Madeground/Asbestos	1	load
5459	18/10/2021	Madeground/Asbestos	1	load
5460	18/10/2021	Madeground/Asbestos	1	load
5461	18/10/2021	Madeground/Asbestos	1	load
5462	18/10/2021	Madeground/Asbestos	1	load
5463	19/10/2021	Madeground/Asbestos	1	load
5464	19/10/2021	Madeground/Asbestos	1	load
5465	19/10/2021	Madeground/Asbestos	1	load
5466	19/10/2021	Madeground/Asbestos	1	load

[illegible]

Ticket No	Date	Item	Quantity	Unit
5467	20/10/2021	Madeground/Asbestos	1	load
5468	20/10/2021	Madeground/Asbestos	1	load
5469	20/10/2021	Madeground/Asbestos	1	load
5470	20/10/2021	Madeground/Asbestos	1	load
5471	21/10/2021	Madeground/Asbestos	1	load
5472	21/10/2021	Madeground/Asbestos	1	load
5473	21/10/2021	Madeground/Asbestos	1	load
5474	21/10/2021	Madeground/Asbestos	1	load
5475	22/10/2021	Madeground/Asbestos	1	load
5476	22/10/2021	Madeground/Asbestos	1	load
5477	22/10/2021	Madeground/Asbestos	1	load
5478	22/10/2021	Madeground/Asbestos	1	load
			24	
5479	25/10/2021	Made ground	1	load
5480	25/10/2021	Made ground	1	load
5481	25/10/2021	Made ground	1	load
5179	25/10/2021	Made ground	1	load
5180	25/10/2021	Made ground	1	load
5181	25/10/2021	Made ground	1	load
5182	25/10/2021	Made ground	1	load
5185	26/10/2021	Made ground	1	load
5186	26/10/2021	Made ground	1	load
5187	26/10/2021	Made ground	1	load
5188	26/10/2021	Made ground	1	load
5485	26/10/2021	Made ground	1	load
5486	26/10/2021	Made ground	1	load
5487	26/10/2021	Made ground	1	load
			14	
33869	23/02/2022	Tarmac/ Made ground	1	load
33870	23/02/2022	Tarmac/ Made ground	1	load
33871	23/02/2022	Tarmac/ Made ground	1	load
33872	23/02/2022	Tarmac/ Made ground	1	load
33873	24/02/2022	Tarmac/ Made ground	1	load
33874	24/02/2022	Tarmac/ Made ground	1	load
34004	25/02/2022	Tarmac/ Made ground	1	load
34005	25/02/2022	Tarmac/ Made ground	1	load
34006	25/02/2022	Tarmac/ Made ground	1	load
34007	25/02/2022	Tarmac/ Made ground	1	load
34600	25/02/2022	Tarmac/ Made ground	1	load
34603	25/02/2022	Tarmac/ Made ground	1	load
34604	25/02/2022	Tarmac/ Made ground	1	load
34605	01/03/2022	Made ground	1	load
34606	01/03/2022	Made ground	1	load
34607	01/03/2022	Made ground	1	load
34608	01/03/2022	Made ground	1	load
34609	01/03/2022	Made ground	1	load
34610	01/03/2022	Made ground	1	load
34700	02/03/2022	Made ground	1	load

Type of Waste	EWC Code
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
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Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 03 02
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07
Non -Hazardous	17 01 07

Block A Post demolition survey

B1

Appendix C

Pre-Importation Third Party Soils Analysis and Delivery Tickets





TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

9th January 2023
Our Ref: TOHA/23/7779/SS
Your Ref: as below

Dear Sirs

Topsoil Analysis Report:

We have completed the analysis of the soil sample recently submitted, referenced *Forest Lodge Topsoil*, and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification testing, validation testing or waste designation purposes.

SAMPLE EXAMINATION

The sample was described as a brown (Munsell Colour 10YR 4/3), non-calcareous, dry, friable SANDY LOAM with a weakly developed very fine to fine and occasionally medium granular structure*. The sample was slightly stony comprising stones up to 5mm in size and contained moderate proportions of organic fragments and frequent woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

*This appraisal of soil structure was made from examination of a disturbed sample(s). Structure is a key soil characteristic that may only be accurately assessed by examination in an in-situ state.

Tim O'Hare Associates LLP
Howbery Park Wallingford Oxfordshire OX10 8
BA
T: 01491 822653 E: info@toha.co.uk
www.toha.co.uk

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- particle size analysis (sand, silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, B, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX).

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *sandy loam* texture class, which is usually considered suitable for general landscape applications provided the soil's physical condition is satisfactory.

The sample was virtually stone-free and, as such, stones should not restrict the use of the soil for general landscape purposes.

pH and Electrical Conductivity Values

The sample was slightly acid in reaction (pH 6.9), with a pH value that would be considered ideal for general landscape purposes.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts were not present at levels that would be harmful to plants.

The electrical conductivity value by CaSQextract (BS3882 requirement) fell below the maximum specified value (3300 S/cm) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

The sample was adequately supplied with organic matter and all major plant nutrients.

The C:N ratio of the sample was acceptable for general landscape purposes.

Potential Contaminants

With reference to BS3882:2015 - Table 1: Notes 3 and 4, there is a requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk Assessment* (2015) and the DEFRA SP1010: *Development of Category 4 Screening Levels (C4SLs) for Assessment of Land Affected by Contamination – Policy Companion Document* (2014).

Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in BS3882:2015 – Table 1.

CONCLUSION

The purpose of the analysis was to determine the suitability of the topsoil sample for general landscape purposes. The analysis has also been undertaken to determine the compliance of the sample with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

From the soil examination and subsequent laboratory analysis, the sample was described as a slightly acidic, non-saline, non-calcareous sandy loam with a weakly developed structure and low stone content. The sample contained sufficient reserves of organic matter and all major plant nutrients. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided the physical condition of the soil is satisfactory.

The sample was also fully compliant with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

Soil Handling Recommendations

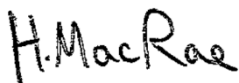
It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, resspreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is sufficiently dry to be non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

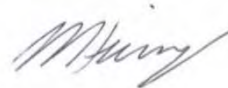
Further details on soil handling are provided in Annex A of *BS3882:2015*.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully



Harriet MacRae
BSc MSc
Graduate Soil Scientist



Matthew Heins
BSc (Hons) MSc
Senior Soil Scientist

For & on behalf of Tim O'Hare Associates LLP



TIM O'HARE ASSOCIATES
SOIL & LANDSCAPE CONSULTANCY

10th August 2023
Our Ref: TOHA/23/1049/SS
Your Ref: as below

Dear Sirs

Topsoil Analysis Report:

We have completed the analysis of the soil sample recently submitted, referenced *Forest Lodge Topsoil*, and have pleasure reporting our findings.

The purpose of the analysis was to determine the suitability of the sample for general landscape purposes (trees, shrubs, amenity grass). In addition, this sample has been assessed to determine its compliance with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

This report presents the results of analysis for the sample submitted to our office, and it should be considered 'indicative' of the topsoil source. The report and results should therefore not be used by third parties as a means of verification testing, validation testing or waste designation purposes.

SAMPLE EXAMINATION

The sample was described as a very dark greyish brown (Munsell Colour 10YR 3/2), slightly calcareous, dry, friable SANDY LOAM with a single grain structure. The sample was stone-free and contained low proportions of organic fragments and occasional woody fragments. No unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

Tim O'Hare Associates LLP
Howbery Park Wallingford Oxfordshire OX10
8BA
T: 01491 822653 E: info@toha.co.uk
www.toha.co.uk

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- particle size analysis (sand, silt, clay);
- stone content (2-20mm, 20-50mm, >50mm);
- pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- organic matter content;
- C:N ratio;
- heavy metals (As, B, Cd, Cr, Cu, Pb, Hg, Ni, Se, Zn);
- total cyanide and total (mono) phenols;
- speciated PAHs (US EPA16 suite);
- aromatic and aliphatic TPH (C5-C35 banding);
- benzene, toluene, ethylbenzene, xylene (BTEX).

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below.

RESULTS OF ANALYSIS

Particle Size Analysis and Stone Content

The sample fell into the *sandy loam* texture class, which is usually considered suitable for general landscape applications provided the soil's physical condition is satisfactory.

The sample was stone-free and, as such, stones should not restrict the use of the soil for general landscape purposes.

pH and Electrical Conductivity Values

The sample was alkaline in reaction (pH 7.9). This pH value would be considered suitable for general landscape purposes provided species with a wide pH tolerance or those known to prefer alkaline soils are selected for planting, turfing and seeding.

The electrical conductivity (salinity) value (water extract) was moderate, which indicates that soluble salts should not be present at levels that would be harmful to plants.

The electrical conductivity value by CaSO₄ extract (BS3882 requirement) fell below the maximum specified value (3300 S/cm) given in BS3882:2015 – Table 1.

Organic Matter and Fertility Status

The sample was adequate to well supplied with organic matter and all major plant nutrients.

The C:N ratio of the sample was acceptable for general landscape purposes.

Potential Contaminants

With reference to BS3882:2015 - Table 1: Notes 3 and 4, there is a requirement to confirm levels of potential contaminants in relation to the topsoil's proposed end use. This includes human health, environmental protection and metals considered toxic to plants. In the absence of site-specific assessment criteria, the concentrations that affect human health have been compared with the *residential with homegrown produce* land use in the Suitable For Use Levels (S4ULs) presented in *The LQM/CIEH S4ULs for Human Health Risk Assessment* (2015) and the DEFRA SP1010: *Development of Category 4 Screening Levels (C4SLs) for Assessment of Land Affected by Contamination – Policy Companion Document* (2014).

Of the potential contaminants determined, none was found at levels that exceeded their guideline values.

Phytotoxic Contaminants

Of the phytotoxic (toxic to plants) contaminants determined (copper, nickel, zinc), none was found at levels that exceeded the maximum permissible levels specified in *BS3882:2015 – Table 1*.

CONCLUSION

The purpose of the analysis was to determine the suitability of the topsoil sample for general landscape purposes. The analysis has also been undertaken to determine the compliance of the sample with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

From the soil examination and subsequent laboratory analysis, the sample was described as an alkaline, moderately saline, slightly calcareous, stone-free *sandy loam* with a single grain structure. The sample contained sufficient reserves of organic matter and all major plant nutrients. Of the potential contaminants determined, none exceeded their respective guideline values.

To conclude, based on our findings, the topsoil represented by this sample would be considered suitable for general landscape purposes (trees, shrubs and amenity grass), provided species with a wide pH tolerance or those known to prefer alkaline soils are selected and the physical condition of the soil is satisfactory.

The sample was also fully compliant with the requirements of the British Standard for Topsoil (*BS3882:2015 – Specification for Topsoil – Table 1, Multipurpose Topsoil*).

Soil Handling Recommendations

It is important to maintain the physical condition of the soil and avoid structural damage during all phases of soil handling (e.g. stockpiling, resspreading, cultivating, planting, seeding or turfing). As a consequence, soil handling operations should be carried out when soil is sufficiently dry to be non-plastic (friable) in consistency.

It is important to ensure that the soil is not unnecessarily compacted by trampling or trafficking by site machinery, and soil handling should be stopped during and after heavy rainfall and not continued until the soil is friable in consistency. If the soil is structurally damaged and compacted at any stage during the course of soiling or landscaping works, it should be cultivated appropriately to relieve the compaction and to restore the soil's structure prior to any planting, turfing or seeding.

Further details on soil handling are provided in Annex A of *BS3882:2015*.

We hope this report meets with your approval and provides the necessary information. Please do not hesitate to contact the undersigned if we can be of further assistance.

Yours faithfully



Ross Friar
MEnvSci
Graduate Soil Scientist



Rebecca Hollands
BSc MSc MSoilSci
Senior Soil Scientist

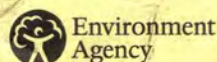
For & on behalf of Tim O'Hare Associates LLP



MANOR Environmental Ltd

No. 72781

Tel: 07900 134824



Registered Waste Carrier
Registration No. CBDU212772

- ☐ CONVEYANCE NOTE C (Weight and Vol)
☐ CONTROLLED WASTE TRANSFER NOTE

Date: 23/10/2023

Operating on behalf of:

MCM

Vehicle Reg No.

RK22EPO

Driver Name

ARRON

Producer - Client / Customer

TRENCON
CONSTRUCTION LTD

Description of waste/material

BS3886
TOPSOIL DEL

Quantity

1X8W

Site Address

COLEY PARK

WENSLEY ROAD

READING

Postal Code:

RG1 6EB

Standard Industrial
Classification
(SIC) code

--	--	--	--

The below signed certifies that the above particulars are true and relate to the materials / waste being conveyed in the vehicle described. The materials / waste are being so conveyed in pursuance of:

- a) A sale or an agreement for the sale thereof made by weight.
b) An agreement for the carriage thereof made by weight or volume.

The producee confirms waste hierarchy arrangements have been considered for waste when applicable in accordance with the waste (England & Wales) Regs 2011, Regulation 12

Producer/ Client/ Site Signature:

Print Name:

Driver Signature:

The Destination / Delivery Address

Postal Code:

Description of materials being delivered:

Wood ☐ Hardcore ☐ Aggregates ☐

Screen Top Soil ☐ Turflay Soil ☐ Other ☐

Delivery confirmation or receipt:

Print Name:

J. Morgan

The carrier will not be responsible in any circumstances for damage caused to private property by our vehicles during the course of collection or delivery. Delivery / Collection will only be carried out to areas where the surface is suitable / fit for purpose and is on the consignees invitation.

White Copy - Office / Yellow Copy - Customer / Pink - Accounts / Green - Tip



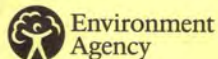
MANOR
Environmental Ltd

No. **73610**

Tel: 07900 134824

☐ CONVEYANCE NOTE C (Weight and Vol)

☐ CONTROLLED WASTE TRANSFER NOTE



Registered Waste Carrier
Registration No. CBDU212772

Date: **15-11-23**

Operating on behalf of:

MCM

Vehicle Reg No.

ME08 MUX

Driver Name

IAN

Producer - Client / Customer

Frencon Con LTD

Description of waste/material

Top Soil (Del)

Quantity

1X8w

European waste code: Please tick

Soil & Stones ☐ 17 - 05 - 04

Concrete & Brick ☐ 17 - 01 - 07

Mixed Construction
& Demo ☐ 17 - 09 - 04

Wood ☐ 17 - 02 - 01

Mixed Metal ☐ 17 - 04 - 07

Other - Enter code ☐

Site Address

Coley Park

Wensley Rd

Reading

Postal Code:

RG1 6EB

Standard Industrial
Classification
(SIC) code

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The below signed certifies that the above particulars are true and relate to the materials / waste being conveyed in the vehicle described. The materials / waste are being so conveyed in pursuance of:

- a) A sale or an agreement for the sale thereof made by weight.
b) An agreement for the carriage thereof made by weight or volume.

The Destination / Delivery Address

Postal Code:

Description of materials being delivered:

Wood ☐ Hardcore ☐ Aggregates ☐

Screen Top Soil ☐ Turf Soil ☐ Other ☐

Producer/ Client/ Site Signature:

Print Name:

Driver Signature:

Delivery confirmation or receipt:

Print Name:

J. Morgan

The carrier will not be responsible in any circumstances for damage caused to private property by our vehicles during the course of collection or delivery. Delivery / Collection will only be carried out to areas where the surface is suitable / fit for purpose and is on the consignee's invitation.

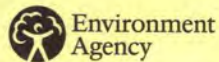
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MANOR
Environmental Ltd

No. **73611**

Tel: 07900 134824



Registered Waste Carrier
Registration No. CBDU212772

- ☐ CONVEYANCE NOTE C (Weight and Vol)
☐ CONTROLLED WASTE TRANSFER NOTE

Date: **15-11-23**

Operating on behalf of: MCM		Vehicle Reg No. ME68MUK	Driver Name IAN
Producer - Client / Customer Frencon Con LTD		Description of waste/material Top Soil (Del)	Quantity 1 x 8w
Site Address Coley Park Wensley Rd Reading		European waste code: Please tick	
Postal Code: RG1 6EB		Soil & Stones ☐ 17 - 05 - 04	
Standard Industrial Classification (SIC) code		Concrete & Brick ☐ 17 - 01 - 07	
		Mixed Construction & Demo ☐ 17 - 09 - 04	
		Wood ☐ 17 - 02 - 01	
		Mixed Metal ☐ 17 - 04 - 07	
		Other - Enter code ☐ _____	
The below signed certifies that the above particulars are true and relate to the materials / waste being conveyed in the vehicle described. The materials / waste are being so conveyed in pursuance of: a) A sale or an agreement for the sale thereof made by weight. b) An agreement for the carriage thereof made by weight or volume.		The Destination / Delivery Address	
The producee confirms waste hierarchy arrangements have been considered for waste when applicable in accordance with the waste (England & Wales) Regs 2011, Regulation 12		Postal Code:	
Producer/ Client/ Site Signature:		Description of materials being delivered:	
Print Name:		Wood ☐ Hardcore ☐ Aggregates ☐	
Driver Signature:		Screen Top Soil ☐ Turflay Soil ☐ Other ☐	
		Delivery confirmation or receipt:	
		Print Name: J. Morgan	

The carrier will not be responsible in any circumstances for damage caused to private property by our vehicles during the course of collection or delivery. Delivery / Collection will only be carried out to areas where the surface is suitable / fit for purpose and is on the consignees invitation.

White Copy - Office / Yellow Copy - Customer / Pink - Accounts / Green - Tip

**MANOR****Environmental Ltd**No. **77884**

Tel: 07900 134824

Environment
AgencyRegistered Waste Carrier
Registration No. CBDU212772

- ☐ CONVEYANCE NOTE C (Weight and Vol)
☐ CONTROLLED WASTE TRANSFER NOTE

Date: **29 08 23**

Operating on behalf of:

MCM

Vehicle Reg No.

HE66 MWS

Driver Name

Wiley

Producer - Client / Customer

FRANCON CONSTRUCTION

Description of waste/material

TOP SOIL

Quantity

1.8

Site Address

COUL PARK**WINDY ROAD****DEADEND****RG16 6B**

Postal Code:

Standard Industrial
Classification
(SIC) code

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The below signed certifies that the above particulars are true and relate to the materials / waste being conveyed in the vehicle described. The materials / waste are being so conveyed in pursuance of:

- a) A sale or an agreement for the sale thereof made by weight.
b) An agreement for the carriage thereof made by weight or volume.

The producee confirms waste hierarchy arrangements have been considered for waste when applicable in accordance with the waste (England & Wales) Regs 2011, Regulation 12

Producer/ Client/ Site Signature:

Print Name:

Driver Signature:

The Destination / Delivery Address

Postal Code:

Description of materials being delivered:

Wood ☐ Hardcore ☐ Aggregates ☐Screen Top Soil ☐ Turflay Soil ☐ Other ☐

Delivery confirmation or receipt:

Print Name:

The carrier will not be responsible in any circumstances for damage caused to private property by our vehicles during the course of collection or delivery. Delivery / Collection will only be carried out to areas where the surface is suitable / fit for purpose and is on the consignees invitation.

White Copy - Office / Yellow Copy - Customer / Pink - Accounts / Green - Tip



Soils Aggregates Waste



British
Association
of Landscape
Industries

Head Office: 7 Coppergate Mews,
103/107 Brighton Road,
Surbiton, KT6 5NE
0208 339 9909
www.mcm-se.com

207665

DUTY OF CARE WASTE TRANSFER NOTE/PROOF OF DELIVERY

Registered Waste Carriers No: CBDU129240 VAT Reg. 3303346 CIWM: 1096413

Customer/Waste Producer

Francis Const

Site Address

Wensley Rd
Reading

Date

8.11.23

Order No.

Transfer/Collection

Fowles

Arrival Time:

Departure Time:

(Please note waiting time is chargeable after 20 minutes on site)

Driver:

cf

Vehicle Reg:

WM18 UH2

(Full Name)

PRIMARY PRODUCTS	RECYCLED PRODUCTS	WASTE
PRIMARY TYPE 1	RECYCLED TYPE 1	CONCRETE AWAY 17-01-01
SHINGLE	6F5	M/A SOILS AND STONE 17-05-04
BALLAST	10/20MM RECYCLED SHINGLE	HAZARDOUS SOILS 17-05-03
SHARP SAND	OTHER	MIXED RECYCLABLES NO SOIL 17-01-07
REJECT SAND	MISCELLANEOUS	MIXED CONSTRUCTION WASTE 17-09-04
BUILDING SAND	WAITING TIME	RUBBISH AWAY 20-03-01
TOPSOIL (GRADE)	WASTED JOURNEY	TARMAC 17-03-02
BULK BAG	HAULAGE ONLY	GREEN WASTE/VEGETATION 20-03-02

Type of vehicle: Grab / Tipper / Artic

*Additional Information:

Waste Description:

TONNES	LOOSE QUANTITY LOAD	CUBIC METRES
GROSS	1 load Topsoil	
TARE		
NETT		

The above job has been completed satisfactorily. All materials supplied conform to the required standards.
I CONFIRM I HAVE FULFILLED MY DUTY TO APPLY THE WASTE HIERARCHY AS REQUIRED BY REGULATION 12 OF THE WASTE REGULATIONS 11

Signed:

J. Morgan

Print Name:

J. Morgan

WHITE COPY - CUSTOMER GREEN, BLUE - OFFICE YELLOW - DISPOSAL POINT

Appendix D

Client's Photographic Record (installation of cover systems)





Plate No.: 1	Title.: Reduced dig in Plot 7
--------------	-------------------------------



Plate No.: 2	Title.: Commencement of reduced dig in unknown plot	
 Geo-Environmental	Ref No.: GE19855	Client: Glenman Corporation Limited
	Project: Wensley Road, Reading, Berkshire, RG1 6DR	



Plate No.: 3	Title.: Commencement of reduced dig in unknown plot
--------------	---



Plate No.: 4	Title.: Membrane placement in unknown plot	
 Geo-Environmental	Ref No.: GE19855	Client: Glenman Corporation Limited
	Project: Wensley Road, Reading, Berkshire, RG1 6DR	



Plate No.: 5

Title.: Aggregate layer placed in unknown plot



Plate No.: 6

Title.: Reduced dig in Plot 11



Geo-Environmental

Ref No.: GE19855

Client: Glenman Corporation Limited

Project: Wensley Road, Reading, Berkshire, RG1 6DR

Appendix E

Visual Inspection Records of Soil Cover System Installation



ID GE19855

Project Name Wensley Road, Reading

Client Glenman Corporation

Engineers

 Shaun Armitage

Project Manager

 Shaun Armitage

Location Berkshire

Date 17/10/2024

Details of Hole

12 records

Hole ID	Plot 1		
Plot No./Position	Plot 1		
Date of Hole	17/10/2024, 08:21		
Hole Type	HP		
Final Depth	0.80		
Ground Conditions			
1 record			
Top Depth	Base Depth	General description of stratum	
0	0.8	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.	
Samples			
1 record			
Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1
Pass/Fail		(X) Pass () Fail	
Remarks			
Photo of Spoil			



Photo of hole with tape in place



Photographs

1 record

Photograph

Description

Pit location

Hole ID	Plot 2
Plot No./Position	Plot 2
Date of Hole	17/10/2024, 08:31

Topsoil Validation Report

Hole Type HP
Final Depth 0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0	0.8	Dark brown very sandy gravelly CLAY with occasional partial decomposed grass. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.3		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph

Description

Pit location

Hole ID	Plot 6
Plot No./Position	Plot 6
Date of Hole	17/10/2024, 08:40

Topsoil Validation Report

Hole Type HP
Final Depth 1.02

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0	1.02	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.1		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Hole ID	Plot 3
Plot No./Position	Plot 3
Date of Hole	17/10/2024, 08:55

Topsoil Validation Report

Hole Type HP
Final Depth 0.86

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.86	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.4		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description	Pit location
-------------	--------------

Hole ID	Plot 4
Plot No./Position	Plot 4
Date of Hole	17/10/2024, 09:15

Topsoil Validation Report

Hole Type	HP
Final Depth	0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.8	Dark brown with occasional yellow brown pockets very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph

Description

Pit location

Hole ID	Plot 5
Plot No./Position	Plot 5
Date of Hole	17/10/2024, 09:25

Topsoil Validation Report

Hole Type HP
Final Depth 0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.8	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.3		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description	Pit location
-------------	--------------

Hole ID	Plot 7
Plot No./Position	Plot 7
Date of Hole	17/10/2024, 09:34

Topsoil Validation Report

Hole Type HP

Final Depth 0.84

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.4		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph

A photograph showing the location of the soil pit. It depicts a narrow backyard area. On the left is a red brick wall with a dark downspout and a small window. A grey utility box sits on a paved path. To the right is a wooden fence. A patch of green grass is in the center, where the pit was located.

Description

Pit location

Hole ID	Plot 8
Plot No./Position	Plot 8
Date of Hole	17/10/2024, 09:52

Topsoil Validation Report

Hole Type HP
Final Depth 0.85

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.85	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph	
	
Description	Pit location

Hole ID	Plot 9
Plot No./Position	Plot 9
Date of Hole	17/10/2024, 10:01

Topsoil Validation Report

Hole Type HP
Final Depth 0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.8	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.1		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Hole ID	Plot 10
Plot No./Position	Plot 10
Date of Hole	17/10/2024, 10:12

Topsoil Validation Report

Hole Type HP
Final Depth 0.82

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.82	Dark brown very sandy gravelly CLAY with occasional rootlets. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.4		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph

Description

Pit location

Hole ID	Plot 11
Plot No./Position	Plot 11
Date of Hole	17/10/2024, 10:22

Topsoil Validation Report

Hole Type	HP
Final Depth	0.95

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.95	Dark brown very sandy gravelly CLAY with occasional gravel sized pockets of yellow brown clay. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below. Membrane cut while digging; aggregate visible.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1

Pass/Fail	(X) Pass () Fail
-----------	----------------------

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Hole ID	Plot 13
Plot No./Position	Plot 13
Date of Hole	17/10/2024, 10:34

Topsoil Validation Report

Hole Type HP
Final Depth 0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0.0	0.8	Dark brown very sandy gravelly CLAY. Gravel is fine and medium subangular flint. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.3		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Approved By

 Shaun Armitage

ID GE19855

Project Name Wensley Road, Reading

Client Glenman Corporation

Engineers

 Shaun Armitage

Project Manager

 Shaun Armitage

Location Berkshire

Date 21/10/2024

Details of Hole

2 records

Hole ID	Plot 12		
Plot No./Position	Plot 12		
Date of Hole	21/10/2024, 12:48		
Hole Type	HP		
Final Depth	0.80		
Ground Conditions			
1 record			
Top Depth	Base Depth	General description of stratum	
0	0.8	Dark brown very clayey silty slightly gravelly medium SAND. Overlying white non-woven geotextile with aggregate layer below.	
Samples			
1 record			
Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1
Pass/Fail		(X) Pass () Fail	
Remarks			
Photo of Spoil			



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Hole ID	Plot 14
Plot No./Position	Plot 14
Date of Hole	21/10/2024, 12:56

Topsoil Validation Report

Hole Type HP
Final Depth 0.80

Ground Conditions

1 record

Top Depth	Base Depth	General description of stratum
0	0.8	Dark brown very clayey silty slightly gravelly medium SAND. Overlying white non-woven geotextile with aggregate layer below.

Samples

1 record

Top Depth	Base Depth	Sample type	Sample reference
0.4		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

1 record

Photograph



Description

Pit location

Approved By

 Shaun Armitage

Appendix F

Independent Geochemical Laboratory Test Results for Topsoil



Geo-Environmental Services Ltd
Unit 7, Danworth Farm
Cuckfield Road
Hurstpierpoint
West Sussex
BN6 9GL

t: 01273 832972

e: shaun.armitage@gesl.net
results@gesl.net

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

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 24-048789

Project / Site name:	Wensley Road, Reading	Samples received on:	21/10/2024
Your job number:	GE19855	Samples instructed on / Analysis started on:	21/10/2024
Your order number:	PO-7868	Analysis completed by:	26/10/2024
Report Issue Number:	1	Report issued on:	28/10/2024
Samples Analysed:	6 soil samples		

Signed: 

Trevor Hill
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-048789
Project / Site name: Wensley Road, Reading
Your Order No: PO-7868

Lab Sample Number				353569	353570	353571	353572	353573
Sample Reference				Plot 1	Plot 3	Plot 5	Plot 7	Plot 9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.40	0.30	0.40	0.10
Date Sampled				17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	23	17	22	15
Total mass of sample received	kg	0.1	NONE	1.1	1.2	1.2	1.2	1.1

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	8	7.8	8	8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	760	590	860	710	460
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	110	470	360	150
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	104	56.5	235	181	75.7
Sulphide	mg/kg	1	MCERTS	2.5	1.8	1.2	2.9	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	50	43	130	200	53
Elemental Sulphur	mg/kg	5	MCERTS	8.9	10	7	11	7.3
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.6	3.2	2.1	2.9	2.1

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.17	< 0.05	< 0.05	< 0.05	0.11
Acenaphthylene	mg/kg	0.05	MCERTS	0.16	< 0.05	0.1	< 0.05	0.11
Acenaphthene	mg/kg	0.05	MCERTS	0.3	< 0.05	0.08	< 0.05	0.29
Fluorene	mg/kg	0.05	MCERTS	0.35	< 0.05	0.07	< 0.05	0.23
Phenanthrene	mg/kg	0.05	MCERTS	3	0.18	1	< 0.05	2.6
Anthracene	mg/kg	0.05	MCERTS	0.68	0.08	0.35	< 0.05	0.52
Fluoranthene	mg/kg	0.05	MCERTS	4.7	0.67	3.2	0.06	3.5
Pyrene	mg/kg	0.05	MCERTS	3.9	0.67	2.9	0.05	3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2	0.41	1.6	< 0.05	1.4
Chrysene	mg/kg	0.05	MCERTS	2	0.38	1.5	0.05	1.4
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.5	0.62	2.1	0.1	2.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.3	0.23	0.91	< 0.05	0.71
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.4	0.52	1.8	0.07	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.1	0.29	0.83	< 0.05	0.76
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.27	< 0.05	0.18	< 0.05	0.19
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.2	0.32	0.9	< 0.05	0.87

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	25.9	4.37	17.6	< 0.80	19.5
-----------------------------	-------	-----	-----------	------	------	------	--------	------

Analytical Report Number: 24-048789
Project / Site name: Wensley Road, Reading
Your Order No: PO-7868

Lab Sample Number	353569	353570	353571	353572	353573
Sample Reference	Plot 1	Plot 3	Plot 5	Plot 7	Plot 9
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.20	0.40	0.30	0.40	0.10
Date Sampled	17/10/2024	17/10/2024	17/10/2024	17/10/2024	17/10/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	11	12	8.2	8.8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	76	49	84	31	58
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.45	0.37	0.47	0.3	0.43
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	2.4	1.7	1.6	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5	0.3	0.4	0.3	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	15	18	9.1	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	35	23	25	14	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	80	45	66	20	54
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.8	10	10	9.4	8.5
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	24	21	25	16	24
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	82	93	61	72

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	28	16	20	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	28	16	20	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	28	16	20	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	35	21	27	< 10	19
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	35	11	14	< 8.4	21
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	35	21	27	< 10	19
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	71	32	40	< 10	39

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

Analytical Report Number: 24-048789
Project / Site name: Wensley Road, Reading
Your Order No: PO-7868

Lab Sample Number	353574			
Sample Reference	Plot 11			
Sample Number	None Supplied			
Depth (m)	0.20			
Date Sampled	17/10/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	21
Total mass of sample received	kg	0.1	NONE	1.2

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	440
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	95
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	47.4
Sulphide	mg/kg	1	MCERTS	1.5
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	120
Elemental Sulphur	mg/kg	5	MCERTS	9.9
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.8

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.16
Anthracene	mg/kg	0.05	MCERTS	0.06
Fluoranthene	mg/kg	0.05	MCERTS	0.59
Pyrene	mg/kg	0.05	MCERTS	0.57
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.32
Chrysene	mg/kg	0.05	MCERTS	0.35
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.51
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.44
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.25
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.27

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.72
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Analytical Report Number: 24-048789
 Project / Site name: Wensley Road, Reading
 Your Order No: PO-7868

Lab Sample Number	353574			
Sample Reference	Plot 11			
Sample Number	None Supplied			
Depth (m)	0.20			
Date Sampled	17/10/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	38
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.35
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	17
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	12
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	12
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	12

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	14
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	14
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	14

VOCS

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

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

Analytical Report Number : 24-048789

Project / Site name: Wensley Road, Reading

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
353569	Plot 1	None Supplied	0.2	Brown clay and sand with gravel
353570	Plot 3	None Supplied	0.4	Brown clay and sand with gravel
353571	Plot 5	None Supplied	0.3	Brown loam and clay with gravel and vegetation
353572	Plot 7	None Supplied	0.4	Brown clay and loam with gravel
353573	Plot 9	None Supplied	0.1	Brown loam and clay with gravel
353574	Plot 11	None Supplied	0.2	Brown clay and sand with gravel

Analytical Report Number : 24-048789
Project / Site name: Wensley Road, Reading

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 24-048789
Project / Site name: Wensley Road, Reading

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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Analytical Report Number : 24-048790

Project / Site name:	Wensley Road, Reading	Samples received on:	21/10/2024
Your job number:	GE19855	Samples instructed on / Analysis started on:	21/10/2024
Your order number:	PO-7868	Analysis completed by:	25/10/2024
Report Issue Number:	1	Report issued on:	29/10/2024
Samples Analysed:	2 soil samples		



Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

i2 Analytical
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Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Pass BS 3882 for Multipurpose Topsoil; Calcareous;						client		
Report No:	24-048790					Geo-Environmental Services Ltd			
Location	Wensley Road, Reading								
Lab Reference (Sample Number)	353575								
Sampling Date	17/10/2024								
Sample ID	Plot 7								
Depth (m)	0.40			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SANDY LOAM	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	1.90	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	5.60						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	8.20	Y	N	Y	Y	N	Y
Carbonate:		%m/m	9.00	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.27	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	59.00	Y	Y	Y	N	N	N
	Extractable Potassium	mg/l	1260.00	Y	Y	Y	-	-	-
	Extractable Magnesium	mg/l	210.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	12.20	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	3100.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	63.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	12.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	11.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Pass	Fail	Pass	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and 12 cannot be held responsible for any discrepancies with current legislation									

** = MCERTS accredited

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7 Woodshots Meadow
Croxley Green Business Park
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Telephone: 01923 225404
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email:reception@i2analytical.com

Certificate of Analysis									
BS 3882:2015 Specification For Topsoil									
	Pass BS 3882 for Multipurpose Topsoil; Calcareous;							client	
Report No:	24-048790						Geo-Environmental Services Ltd		
Location	Wensley Road, Reading								
Lab Reference (Sample Number)	353576								
Sampling Date	17/10/2024								
Sample ID	Plot 11								
Depth (m)	0.20			Compliant with range (Y/N)					
		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	LOAMY SAND	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	1.00	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	5.10						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	8.10	Y	N	Y	Y	N	Y
Carbonate:		%m/m	7.50	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.19	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	89.00	Y	Y	Y	N	N	N
	Extractable Potassium	mg/l	1090.00	Y	Y	Y	-	-	-
	Extractable Magnesium	mg/l	190.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	16.14	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	2000.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	75.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	20.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	12.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliance:				Pass	Fail	Pass	Fail	Fail	Fail
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation									

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited

Analytical Report Number : 24-048790

Project / Site name: Wensley Road, Reading

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
353575	Plot 7	None Supplied	0.4	Brown clay and loam with gravel
353576	Plot 11	None Supplied	0.2	Brown clay and loam with gravel

Analytical Report Number : 24-048790
Project / Site name: Wensley Road, Reading

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L019B	D	NONE
Density of available extract	Gravimetric determination of density of dried sample up to 2 mm	In-house method	L019B	D	NONE
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Conductivity (BS 3882/BS 8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L031B	D	NONE
Carbonate (Topsoil - BS 3882)	Determination of Carbonate as per BS 3882:2015	Method based on BS 3882:2015	L034-PL	D	NONE
Extractable/Available Metals (BS 3882/BS 8601)	Determination of the extractable metals in soil, in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L038B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition	BS3882:2015	L047-PL/L087B	W	NONE
Mass loss on ignition (Topsoil - BS 3882)	Determination of Loss on Ignition as per BS 3882:2015	Method based on BS 3882:2015	L047-PL	D	NONE
Phosphorus as PO ₄ (BS 3882/BS 8601)	Determination of the extractable phosphorus in soil, in accordance with BS 3882:2007 methodology	Method based on BS 3882:2015 & BS 8601:2013	L048B	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and ion selective electrode	In-house method based on BS 7755-3.7:1995	L087B	D	NONE
pH (BS 3882/BS 8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L099-PL	D	NONE
Topsoil (BS 3882:2015)	Specification for topsoil	BS 3882:2015	PL		NONE
Textural Classification Diagram (BS 3882:2015)	BS 3882:2015	BS 3882:2015	PL		NONE

Analytical Report Number : 24-048790
Project / Site name: Wensley Road, Reading

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

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

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

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

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



Client: Geo-Environmental Services Ltd
Client Address: Unit 7, Danworth Farm, Cuckfield Road,
Hurstpierpoint, West Sussex,
BN6 9GL
Contact: Shaun Armitage
Site Address: Wensley Road, Reading

Client Reference: GE19855
Job Number: 24-048790-1
Date Sampled: 17/10/2024
Date Received: 21/10/2024
Date Tested: 22/10/2024
Sampled By: Not Given

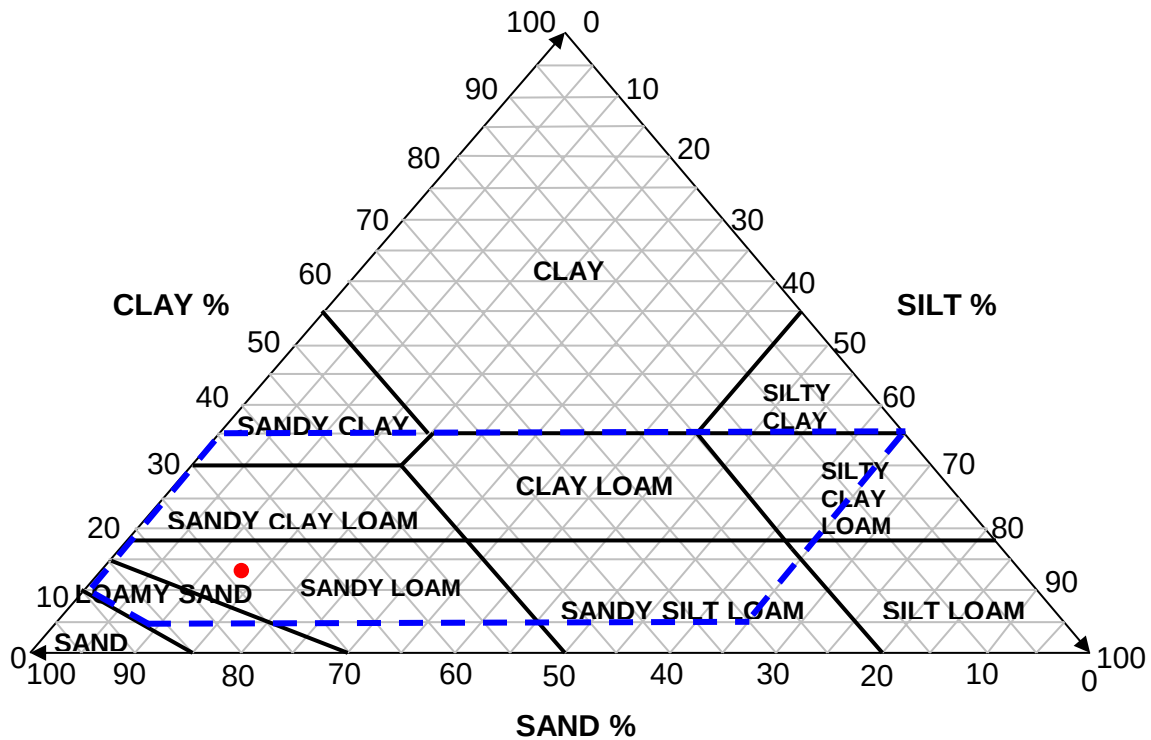
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 353575
Hole No.: Plot 7
Sample Reference: Not Given
Sample Description: SANDY LOAM

Depth Top [m]: 0.40
Depth Base [m]: Not Given
Sample Type: ES

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	74.0
Silt	11.7
Clay	14.3

Texture within acceptable area (Y/N)

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
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Client: Geo-Environmental Services Ltd
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BN6 9GL

Contact: Shaun Armitage
Site Address: Wensley Road, Reading

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

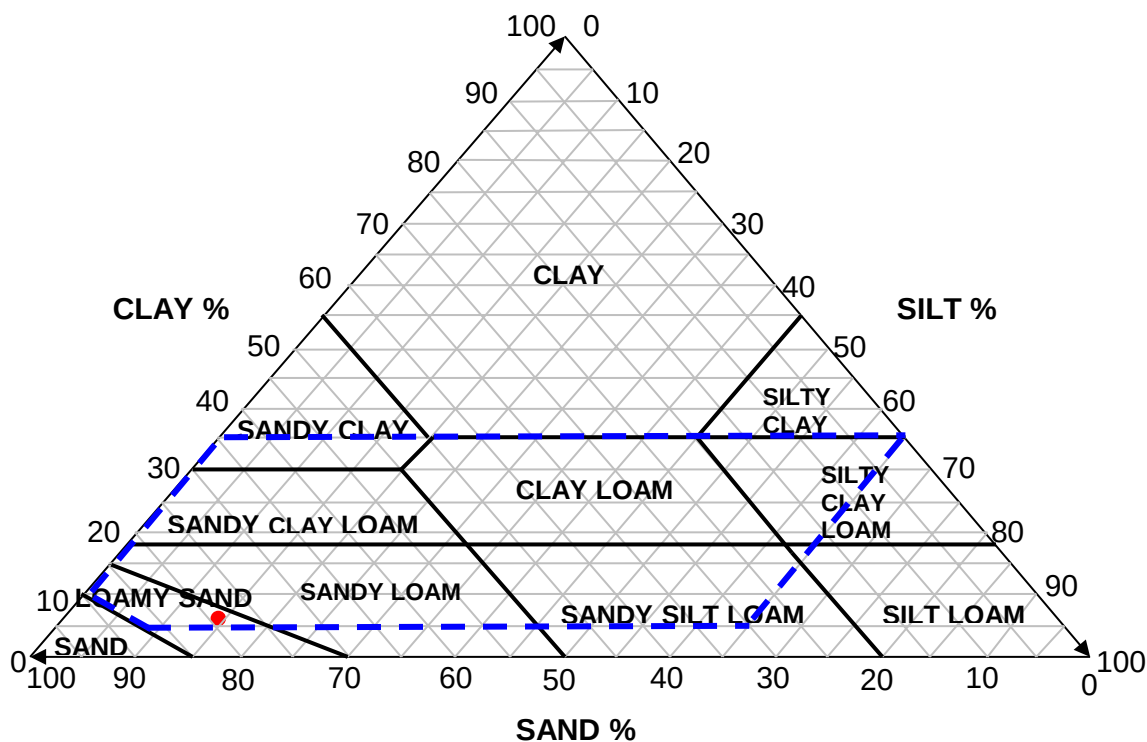
Client Reference: GE19855
Job Number: 24-048790-1
Date Sampled: 17/10/2024
Date Received: 21/10/2024
Date Tested: 23/10/2024
Sampled By: Not Given

Test Results:

Laboratory Reference: 353576
Hole No.: Plot 11
Sample Reference: Not Given
Sample Description: LOAMY SAND

Depth Top [m]: 0.20
Depth Base [m]: Not Given
Sample Type: ES

Soil Texture Triangle



Sample Proportion	% dry mass
Sand	79.7
Silt	13.1
Clay	7.2

Texture within acceptable area (Y/N)

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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Analytical Report Number : 24-049462

Project / Site name:	Wensley Road, Reading	Samples received on:	24/10/2024
Your job number:	GE19855	Samples instructed on / Analysis started on:	24/10/2024
Your order number:	PO-7876	Analysis completed by:	30/10/2024
Report Issue Number:	1	Report issued on:	30/10/2024
Samples Analysed:	1 soil sample		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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

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

Analytical Report Number: 24-049462
Project / Site name: Wensley Road, Reading
Your Order No: PO-7876

Lab Sample Number	356749			
Sample Reference	Plot 12			
Sample Number	None Supplied			
Depth (m)	0.20			
Date Sampled	21/10/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	18
Total mass of sample received	kg	0.1	NONE	1.2

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	650
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	370
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	183
Sulphide	mg/kg	1	MCERTS	4.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	440
Elemental Sulphur	mg/kg	5	MCERTS	7.2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.5

Total Phenols

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

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.07
Acenaphthene	mg/kg	0.05	MCERTS	0.05
Fluorene	mg/kg	0.05	MCERTS	0.07
Phenanthrene	mg/kg	0.05	MCERTS	1.8
Anthracene	mg/kg	0.05	MCERTS	0.46
Fluoranthene	mg/kg	0.05	MCERTS	2.8
Pyrene	mg/kg	0.05	MCERTS	2.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2
Chrysene	mg/kg	0.05	MCERTS	1.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.3
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.63
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.17
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.72

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	14.6
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Analytical Report Number: 24-049462
Project / Site name: Wensley Road, Reading
Your Order No: PO-7876

Lab Sample Number	356749			
Sample Reference	Plot 12			
Sample Number	None Supplied			
Depth (m)	0.20			
Date Sampled	21/10/2024			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.5
Barium (aqua regia extractable)	mg/kg	1	MCERTS	39
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.37
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	73

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	13
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	13
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	13

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

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



Analytical Report Number : 24-049462

Project / Site name: Wensley Road, Reading

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
356749	Plot 12	None Supplied	0.2	Brown loam and clay with gravel

Analytical Report Number : 24-049462
Project / Site name: Wensley Road, Reading

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 24-049462
Project / Site name: Wensley Road, Reading

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution