

Claremont Road, Rusholme

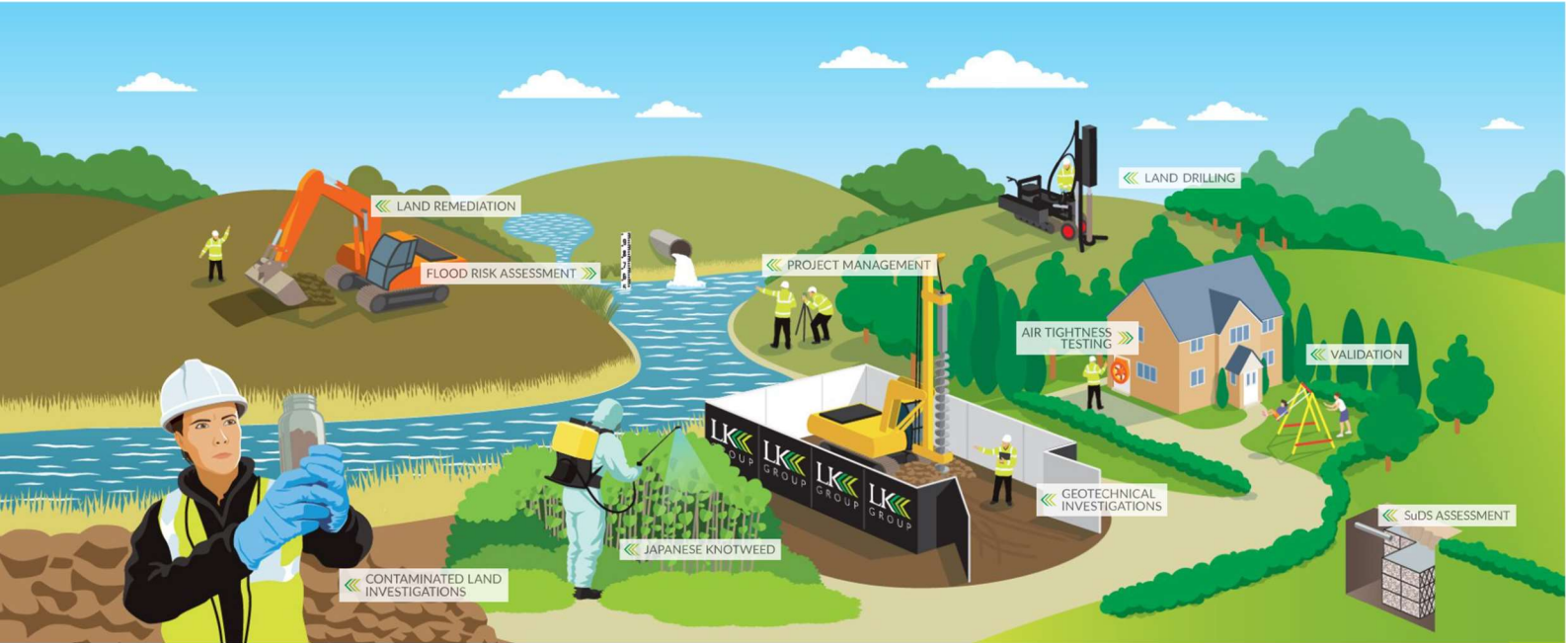
Site Completion Report

Job Number: LKC 23 1097
Date: October 2024
Client: Crown Advisory



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DOCUMENT QUALITY ASSURANCE

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Report Title	Site Completion Report
Job Number	LKC 23 1907
Client	Crown Advisory

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Document Ref:			
Status			
Written By			
Approved By			

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Status			
Written By			
Approved By			

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Appendix C – References

1. Introduction

LK Consult Ltd (LKC) has been commissioned to provide a Site Completion Report for 492-494 Claremont Road, Manchester (planning reference 130987/FO/2021). The development comprised 7 no. dwellings.

The aim of the Site Completion Report will be to demonstrate to the Local Authority that the site has been suitably remediated in line with the Remediation Statement and in accordance with the National Planning Policy Framework (NPPF)¹, where the site is 'suitable for use' for the proposed development.

The Site Completion Report should be sufficient to satisfy Contaminated Land Condition 4. Details are provided in the following Sections.

Location	492-494 Claremont Road, Manchester, M14 5AB. Centred at approximate 385087E 395107N.
Area	Approximately 1,000m ² .
Planning Reference	130987/FO/2021
Proposed Development	7 no. residential houses with private rear gardens and associated soft landscaping.

Table 1-1: Summary of site details.

1.1. Summary of Previous Work

The following reports have been undertaken for the site:

- Soil Contamination Delineation Letter Report Claremont Road, Manchester undertaken by Earth Environmental (reference A2212/21/LR/V1 dated 16th June 2021).
- Phase I Geoenvironmental Assessment, Claremont Road, undertaken by Earth Environmental (reference A2212/17, dated January 2022).
- Phase II Geoenvironmental Investigation, Claremont Road, undertaken by Earth Environmental (reference A2212/19/B.0/V2, dated January 2022).
- Remediation Strategy Claremont Road, undertaken by Earth Environmental (reference A2212/19/RMS, dated January 2022).
- Additional Site Investigation, Risk Assessment and Updated Remediation Assessment undertaken by The LK Group (Ref: LKC 23 1097-B1-GI dated August 2023).

1.2. Summary of Required Validation Work

Based upon the findings of the above the following validation was required:

- Validation of depth of clean cover system to include 600mm of clean soils over a geotextile membrane in rear gardens and 450mm over a geotextile membrane within front gardens.
- Chemical validation of all imported soils to be used in gardens and soft landscaping.

2. Environmental Capping Layer

Made ground in the garden areas was excavated to 600mm below final finished levels and removed from site. A woven geotextile membrane was laid at the base.

Topsoil and subsoil was imported onto site to raise levels within the rear gardens.

Only the rear gardens of Plots 1 to 6 require validation. The front gardens proposals have been revised to be hard surfaced and no validation is required. Plot 7 has no rear garden. Photographs are presented in Appendix C.

2.1. Sampling Methodology

Approximately 40m³ (80 tonnes) of topsoil was imported from Huperade Limited. Approximately 80m³ (160 tonnes) of subsoil was imported from Dandy's Landscape Supplies.

A sampling rate of 1 per 100m³ for a 'remediated' source to confirm the soils suitability for the site was agreed with the council. Certificates of analysis are provided in Appendix A. LKC collected 3no. samples of topsoil (referenced TS1 to TS3) and 3no. samples of subsoil (referenced SS1 to SS3) on the 9th October 2024. One sample of the subsoil was tested on the 20th September 2024, prior to importing to site. Testing certificates are provided in Appendix A.

2.2. Soil Risk Assessment

With regards to the soil risk assessment LKC will use the following hierarchy:

- Category 4 Screening Levels (C4SLs).
- LQM Suitable 4 Use Levels (S4ULs).

The proposed development is for residential houses with gardens, therefore the assessment criteria for residential with plant uptake has been used for Plots 1-6

All criteria have been generated using the CLEA V1.06/07 model¹⁰ based either on 1%, 2.5% and 6% Soil Organic matter (SOM). Results will be compared to the nearest appropriate SOM.

The analytical results from samples of subsoil and topsoil been compared to the relevant assessment criteria and no elevated contaminants were identified. Therefore, the materials used are considered suitable for use in the cover system. Appropriate screening values are presented in Appendix B.

2.2.1. Soil Results Comparison against Generic Assessment Criteria

The analytical results have been compared to the relevant assessment criteria and no elevated contaminants were identified in the imported topsoil and subsoil therefore the material is considered suitable for use within the garden capping layers.

2.3. Depth of Cover System

The recommendation for the garden capping layer in garden areas was that it should comprise a minimum 600mm thickness of suitable soil over a woven geotextile membrane. Photographs of the final depth of the capping layer with visible geotextile membrane are shown in Appendix C.

An inspection of the capping layer was carried out on the 9th October 2024. Photographs showing the final depths are also provided in Appendix C and observations are summarised below.

The rear garden of Plot 7 is surfaced in asphalt and does not require validation.

The proposed front gardens have been altered from the original design show on Figure 2 and are now understood to be entirely hard stood. Photographs of the hard stood frontages are shown in Appendix C.

Location	Geotextile Present?	Topsoil Depth (mm)	Subsoil Depth (mm)	Total Depth (mm)	Required Depth (mm)	Pass (✓) or Fail (x)
Plot 1 Rear	Yes	300	400	700	600	✓
Plot 2 Rear	Yes	400	300	700	600	✓
Plot 3 Rear	Yes	300	400	700	600	✓
Plot 4 Rear	Yes	200	400	600	600	✓
Plot 5 Rear	Yes	200	400	600	600	✓
Plot 6 Rear	Yes	250	400	650	600	✓

LKC were able to verify that, in the places inspected within the rear garden areas of Plots 1 to 6, the cover layer soil has been appropriately validated and considered 'suitable for use'.

3. Disposal Tickets

Approximately 10no. loads of soil was removed offsite and disposed of as spoil by SED Services Ltd. Examples of disposal tickets are provided in Appendix D.

4. Conclusions

LKC consider that the rear gardens of Plots 1 to 6 to date have been validated in accordance with the agreed covered system detailed in the Additional Site Investigation, Risk Assessment and Updated Remediation Strategy produced by LK Consult.

Based on the above information LKC considers the rear gardens at 492-494 Claremont Road development site is 'suitable for use' for a residential development.

LKC considers there is sufficient information to discharge the outstanding contaminated land planning Condition 4 by Manchester City Council.

Figures



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All dimensions should be checked on site. Do not scale from this drawing. To be read in conjunction with all other Consultant's drawings. The Architect to be immediately notified of any discrepancies.
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- LEGEND
- Plot Boundary
 - ROLEC WALLPOD:EV Electric charging point
 - Turf
 - Shrub / herbaceous planting
 - Tree
 - ULTIDRIVE asphalt tarmac for driveway

B	25/06/21	SA	SH		Amended Project
A	17/05/21	SA	SH		Amended Project
-	27/04/21	SA	SH		Initial Issue
No.	Date	Dwn	Chk	App	Revision or reason for issue

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Architects & Designers

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Project Title
492-494 Claremont Road,
Manchester M14 5WA

Scale / North Point
1 : 200

Drawing Title
Proposed Landscape Plan

Drawing Number A1344(02)005	Revision B
Drawing Status Preliminary	

Appendix A – Certificates of Analysis



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Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 24-11111

Site Reference: Claremont Road, Rusholme

Project / Job Ref: LKC 23 1097

Order No: PO-C000381

Sample Receipt Date: 20/09/2024

Sample Scheduled Date: 20/09/2024

Report Issue Number: 1

Reporting Date: 26/09/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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



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Soil Analysis Certificate						
DETS Report No: 24-11111	~Date Sampled	19/09/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	Test Sample				
~Project / Job Ref: LKC 23 1097	~Additional Refs	ES				
~Order No: PO-C000381	~Depth (m)	None Supplied				
Reporting Date: 26/09/2024	DETS Sample No	739214				

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected			
pH	pH Units	N/a	MCERTS	7.5			
Total Cyanide	mg/kg	< 1	NONE	< 1			
Free Cyanide	mg/kg	< 1	NONE	< 1			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	26			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.03			
Organic Matter (SOM)	%	< 0.1	MCERTS	0.3			
Arsenic (As)	mg/kg	< 2	MCERTS	8			
W/S Boron	mg/kg	< 1	NONE	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3			
Chromium (Cr)	mg/kg	< 2	MCERTS	11			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	10			
Lead (Pb)	mg/kg	< 3	MCERTS	65			
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	8			
Selenium (Se)	mg/kg	< 2	MCERTS	< 2			
Vanadium (V)	mg/kg	< 1	MCERTS	14			
Zinc (Zn)	mg/kg	< 3	MCERTS	108			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-11111	~Date Sampled	19/09/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	Test Sample				
~Project / Job Ref: LKC 23 1097	~Additional Refs	ES				
~Order No: PO-C000381	~Depth (m)	None Supplied				
Reporting Date: 26/09/2024	DETS Sample No	739214				

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6			

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



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4480

Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-11111	~Date Sampled	19/09/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	Test Sample				
~Project / Job Ref: LKC 23 1097	~Additional Refs	ES				
~Order No: PO-C000381	~Depth (m)	None Supplied				
Reporting Date: 26/09/2024	DETS Sample No	739214				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10			
Aliphatic >C34 - C44 : EH_CU_1D_AL	mg/kg	< 10	NONE	< 10			
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10			
Aromatic >C35 - C44 : EH_CU_1D_AR	mg/kg	< 10	NONE	< 10			
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21			
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42			

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-11111	~Date Sampled	19/09/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	Test Sample				
~Project / Job Ref: LKC 23 1097	~Additional Refs	ES				
~Order No: PO-C000381	~Depth (m)	None Supplied				
Reporting Date: 26/09/2024	DETS Sample No	739214				

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2			
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	< 5			
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2			
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2			
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2			
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5			

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 24-11111	
LK Consult Limited	
~Site Reference: Claremont Road, Rusholme	
~Project / Job Ref: LKC 23 1097	
~Order No: PO-C000381	
Reporting Date: 26/09/2024	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
739214	Test Sample	ES	None Supplied	20.9	Brown sandy clay with stones and vegetation

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/S}

Unsuitable Sample ^{u/S}

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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-11111

LK Consult Limited

~Site Reference: Claremont Road, Rusholme

~Project / Job Ref: LKC 23 1097

~Order No: PO-C000381

Reporting Date: 26/09/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

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



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List of HWOL Acronyms and Operators	
DETS Report No: 24-11111	
LK Consult Limited	
~Site Reference: Claremont Road, Rusholme	
~Project / Job Ref: LKC 23 1097	
~Order No: PO-C000381	
Reporting Date: 26/09/2024	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH - Aliphatic >C34 - C44 - raw data - EH_CU_1D_AL
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C34 - C44 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C35 - C44 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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t: 01622 850410

DETS Report No: 24-12045

Site Reference: Claremont Road, Rusholme

Project / Job Ref: LKC 23 1097

Order No: PO-C000469

Sample Receipt Date: 10/10/2024

Sample Scheduled Date: 10/10/2024

Report Issue Number: 1

Reporting Date: 16/10/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 24-12045	~Date Sampled	09/10/24	09/10/24	09/10/24	09/10/24	09/10/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Claremont Road, Rusholme	~TP / BH No	TS1	TS2	TS3	SS1	SS2
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: PO-C000469	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 16/10/2024	DETS Sample No	743071	743072	743073	743074	743075

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.6	7.4	7.5	7.8	7.7
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	77	58	67	221	191
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.08	0.06	0.07	0.22	0.19
Organic Matter (SOM)	%	< 0.1	MCERTS	4.9	4.4	4.7	3.9	3.6
Arsenic (As)	mg/kg	< 2	MCERTS	12	10	10	9	8
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3	0.3	0.3	0.4	0.4
Chromium (Cr)	mg/kg	< 2	MCERTS	12	11	13	13	13
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	42	36	37	24	35
Lead (Pb)	mg/kg	< 3	MCERTS	103	86	94	98	65
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	12	11	12	12	11
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	17	15	17	16	16
Zinc (Zn)	mg/kg	< 3	MCERTS	85	70	73	95	102
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~Sample details provided by customer and can affect the validity of results



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Soil Analysis Certificate						
DETS Report No: 24-12045	~Date Sampled	09/10/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	SS3				
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied				
~Order No: PO-C000469	~Depth (m)	None Supplied				
Reporting Date: 16/10/2024	DETS Sample No	743076				

Determinand	Unit	RL	Accreditation				
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected			
pH	pH Units	N/a	MCERTS	7.7			
Total Cyanide	mg/kg	< 1	NONE	< 1			
Free Cyanide	mg/kg	< 1	NONE	< 1			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	157			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.16			
Organic Matter (SOM)	%	< 0.1	MCERTS	4.3			
Arsenic (As)	mg/kg	< 2	MCERTS	10			
W/S Boron	mg/kg	< 1	NONE	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.5			
Chromium (Cr)	mg/kg	< 2	MCERTS	14			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	37			
Lead (Pb)	mg/kg	< 3	MCERTS	136			
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	13			
Selenium (Se)	mg/kg	< 2	MCERTS	< 2			
Vanadium (V)	mg/kg	< 1	MCERTS	19			
Zinc (Zn)	mg/kg	< 3	MCERTS	110			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12045	~Date Sampled	09/10/24	09/10/24	09/10/24	09/10/24	09/10/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Claremont Road, Rusholme	~TP / BH No	TS1	TS2	TS3	SS1	SS2
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: PO-C000469	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 16/10/2024	DETS Sample No	743071	743072	743073	743074	743075

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.40	0.49	0.66	0.50	0.23
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.17	0.12	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	0.90	1.01	1.20	0.79	0.51
Pyrene	mg/kg	< 0.1	MCERTS	0.82	0.94	1.14	0.72	0.47
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.38	0.45	0.55	0.30	0.23
Chrysene	mg/kg	< 0.1	MCERTS	0.43	0.52	0.61	0.35	0.28
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.37	0.44	0.52	0.34	0.23
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.14	0.19	0.24	0.13	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.36	0.41	0.49	0.32	0.25
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.22	0.24	0.25	0.17	0.13
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.18	0.18	0.23	0.15	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	4.2	4.9	6.1	3.9	2.3

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-12045	~Date Sampled	09/10/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	SS3				
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied				
~Order No: PO-C000469	~Depth (m)	None Supplied				
Reporting Date: 16/10/2024	DETS Sample No	743076				

Determinand	Unit	RL	Accreditation				
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	0.15			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	0.33			
Pyrene	mg/kg	< 0.1	MCERTS	0.32			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.14			
Chrysene	mg/kg	< 0.1	MCERTS	0.21			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.17			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.18			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6			

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-12045	~Date Sampled	09/10/24	09/10/24	09/10/24	09/10/24	09/10/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Claremont Road, Rusholme	~TP / BH No	TS1	TS2	TS3	SS1	SS2
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: PO-C000469	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 16/10/2024	DETS Sample No	743071	743072	743073	743074	743075

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic >C34 - C44 : EH_CU_1D_AL	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	4	4	6	4	< 3
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic >C35 - C44 : EH_CU_1D_AR	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-12045	~Date Sampled	09/10/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	SS3				
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied				
~Order No: PO-C000469	~Depth (m)	None Supplied				
Reporting Date: 16/10/2024	DETS Sample No	743076				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10			
Aliphatic >C34 - C44 : EH_CU_1D_AL	mg/kg	< 10	NONE	< 10			
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10			
Aromatic >C35 - C44 : EH_CU_1D_AR	mg/kg	< 10	NONE	< 10			
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21			
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42			

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-12045	~Date Sampled	09/10/24	09/10/24	09/10/24	09/10/24	09/10/24
LK Consult Limited	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Claremont Road, Rusholme	~TP / BH No	TS1	TS2	TS3	SS1	SS2
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: PO-C000469	~Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 16/10/2024	DETS Sample No	743071	743072	743073	743074	743075

Determinand	Unit	RL	Accreditation						
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5

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Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-12045	~Date Sampled	09/10/24				
LK Consult Limited	~Time Sampled	None Supplied				
~Site Reference: Claremont Road, Rusholme	~TP / BH No	SS3				
~Project / Job Ref: LKC 23 1097	~Additional Refs	None Supplied				
~Order No: PO-C000469	~Depth (m)	None Supplied				
Reporting Date: 16/10/2024	DETS Sample No	743076				

Determinand	Unit	RL	Accreditation				
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2			
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5			
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2			
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2			
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2			
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5			

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



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 24-12045	
LK Consult Limited	
~Site Reference: Claremont Road, Rusholme	
~Project / Job Ref: LKC 23 1097	
~Order No: PO-C000469	
Reporting Date: 16/10/2024	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
743071	TS1	None Supplied	None Supplied	16.6	Brown sandy loam
743072	TS2	None Supplied	None Supplied	17.9	Brown sandy loam with vegetation
743073	TS3	None Supplied	None Supplied	16.7	Brown sandy loam with vegetation
743074	SS1	None Supplied	None Supplied	15.3	Brown sandy clay with stones
743075	SS2	None Supplied	None Supplied	18.4	Brown sandy loam
743076	SS3	None Supplied	None Supplied	18.6	Brown sandy loam with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}

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



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-12045

LK Consult Limited

~Site Reference: Claremont Road, Rusholme

~Project / Job Ref: LKC 23 1097

~Order No: PO-C000469

Reporting Date: 16/10/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried

AR As Received

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



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List of HWOL Acronyms and Operators

DETS Report No: 24-12045

LK Consult Limited

~Site Reference: Claremont Road, Rusholme

~Project / Job Ref: LKC 23 1097

~Order No: PO-C000469

Reporting Date: 16/10/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH - Aliphatic >C34 - C44 - raw data - EH_CU_1D_AL
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C34 - C44 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C35 - C44 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

Appendix B – Generic Assessment Criteria Values

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS ^{resi}	POS ^{park}	Source
Metals	Inorganic Arsenic	N/A	37	40	49	640	79	168	DEFRA C4SL
	Beryllium	N/A	1.7	1.7	35	12	2.2	63	LQM S4UL
	Boron	N/A	290	11,000	45	240,000	21,000	46,000	LQM S4UL
	Cadmium	N/A	26	149	4.9	410	220	880	DEFRA C4SL
	Chromium (III)	N/A	910	910	18,000	8,600	1,500	33,000	LQM S4UL
	Chromium (VI)	N/A	21.0	21.0	170.0	49	23.0	250	DEFRA C4SL
	Copper	N/A	2,400	7,100	520	68,000	12,000	44,000	LQM S4UL
	Lead	N/A	200	310	80	2,330	630	1,300	DEFRA C4SL
	Elemental Mercury	N/A	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}	LQM S4UL
	Inorganic Mercury	N/A	40	56	19	1,100	120	240	LQM S4UL
	Methylmercury	N/A	11	15	6.0	320	40	68	LQM S4UL
	Nickel (2015 update)	N/A	130	180	53	980	230	800	LQM S4UL
	Selenium	N/A	250	430	88	12,000	1,100	1,800	LQM S4UL
	Vanadium	N/A	410	1,200	91	9,000	2,000	5,000	LQM S4UL
Zinc	N/A	3,700	40,000	620	730,000	81,000	170,000	LQM S4UL	
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000	LQM S4UL
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000	LQM S4UL
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000	LQM S4UL
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000	LQM S4UL
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000	LQM S4UL
		2.5%	5,400	35,000	950	540,000	74,000	150,000	LQM S4UL
		6%	11,000	37,000	2,200	540,000	74,000	150,000	LQM S4UL
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49	LQM S4UL
		2.5%	11	14	6.5	170	29	56	LQM S4UL
		6%	13	15	13	180	29	62	LQM S4UL
	Benzo(a)pyrene (only)	1%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		2.5%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		6%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
	Benzo(a)pyrene (surrogate marker Coal Tar)	1%	0.8	1.2	0.32	15	2.2	4	LQM S4UL
		2.5%	1.0	1.2	0.67	15	2.2	5	LQM S4UL
		6%	1.1	1.2	1.20	15	2.2	5	LQM S4UL
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13	LQM S4UL
		2.5%	3.3	4.0	2.1	44	7.2	15	LQM S4UL
		6%	3.7	4.0	3.9	45	7.2	16	LQM S4UL
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400	LQM S4UL
		2.5%	340	360	470	4,000	640	1,500	LQM S4UL
		6%	350	360	640	4,000	640	1,600	LQM S4UL
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370	LQM S4UL
		2.5%	93	110	75	1,200	190	410	LQM S4UL
		6%	100	110	130	1,200	190	440	LQM S4UL
	Chrysene	1%	15	30	4.1	350	57	93	LQM S4UL
		2.5%	22	31	9.4	350	57	110	LQM S4UL
		6%	27	32	19	350	57	120	LQM S4UL
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1	LQM S4UL
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3	LQM S4UL
		6%	0.3	0.32	0.43	3.6	0.58	1.4	LQM S4UL
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300	LQM S4UL
		2.5%	560	1,600	130	23,000	3,100	6,300	LQM S4UL
		6%	890	1,600	290	23,000	3,100	6,400	LQM S4UL
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000	LQM S4UL
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000	LQM S4UL
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000	LQM S4UL
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150	LQM S4UL
		2.5%	36	46	21	510	82	170	LQM S4UL
		6%	41	46	39	510	82	180	LQM S4UL
	Naphthalene	1%	15	15	65	1,600*	11,000*	8,400*	DEFRA C4SL
		2.5%	36	36	130	3,700*	15,000*	17,00*	DEFRA C4SL
		6%	85	85	200	8,400*	1,200*	1,900*	DEFRA C4SL
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200	LQM S4UL
		2.5%	220	1,500	38	22,000	3,100	6,200	LQM S4UL
		6%	440	1,500	90	22,000	3,100	6,300	LQM S4UL
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000	LQM S4UL
		2.5%	1,200	3,800	270	54,000	7,400	15,000	LQM S4UL
		6%	2,000	3,800	620	54,000	7,400	15,000	LQM S4UL
	Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	LQM S4UL
		2.5%	0.98	1.2	0.67	15	2.2	4.7	LQM S4UL
		6%	1.1	1.2	1.2	15	2.2	4.8	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS ^{resi}	POS ^{park}	Source
BTEX Compounds	Benzene	1%	0.87	0.38	0.017	27	72	90	LQM S4UL
		2.5%	0.17	0.70	0.034	47	72	100	LQM S4UL
		6%	0.37	1.4	0.075	90	73	110	LQM S4UL
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}	LQM S4UL
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360)	LQM S4UL
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}	LQM S4UL
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}	LQM S4UL
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}	LQM S4UL
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}	LQM S4UL
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}	LQM S4UL
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}	LQM S4UL
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}	LQM S4UL
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}	LQM S4UL
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}	LQM S4UL
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}	LQM S4UL
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}	LQM S4UL
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}	LQM S4UL
Aliphatic									
EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}	LQM S4UL	
EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}	LQM S4UL	
EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}	LQM S4UL	
EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}	LQM S4UL	
EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}	LQM S4UL	
EC>16-35	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL	
EC>35-44	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL	
Aliphatic									
EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}	LQM S4UL	
EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}	LQM S4UL	
EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}	LQM S4UL	
EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}	LQM S4UL	
EC>12-16	2.5%	2,400 (59) ^{sol}	2,400 (59) ^{sol}	13,000	82,000 (59) ^{sol}	13,000	25,000 (59) ^{sol}	LQM S4UL	
EC>16-35	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL	
EC>35-44	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL	
Aliphatic									
EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150)	LQM S4UL	
EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}	LQM S4UL	
EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}	LQM S4UL	
EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}	LQM S4UL	
EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}	LQM S4UL	
EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL	
EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL	
Aromatic									
EC5-7(benzene as non-	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}	LQM S4UL	
EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL	
EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}	LQM S4UL	
EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}	LQM S4UL	
EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000	LQM S4UL	
EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f	LQM S4UL	
EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
Aromatic									
EC5-7(benzene as non-	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}	LQM S4UL	
EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}	LQM S4UL	
EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}	LQM S4UL	
EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}	LQM S4UL	
EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000	LQM S4UL	
EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f	LQM S4UL	
EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
Aromatic									
EC5-7(benzene as non-	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}	LQM S4UL	
EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360)	LQM S4UL	
EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}	LQM S4UL	
EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000	LQM S4UL	
EC>12-16	6%	660	2,500	130	38,000	5,100	10,000	LQM S4UL	
EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL	
EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL	
Aliphatic +Aromatic >EC44	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
	2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL	
	6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL	

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS ^{res} i	POS ^{park}	Source
Chloroalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	0.0071	0.0092	0.0046	0.67	29	21	LQM S4UL
		2.5%	0.0110	0.0130	0.0083	0.97	29	24	LQM S4UL
		6%	0.0190	0.0230	0.0160	1.7	29	28	LQM S4UL
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}	LQM S4UL
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}	LQM S4UL
		6%	39	40	240	3,000	140,000	100,000 (6,392)	LQM S4UL
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800	LQM S4UL
		2.5%	3.4	8.0	0.89	550	1,400	2,100	LQM S4UL
		6%	7.5	17	2.0	1,100	1,400	2,300	LQM S4UL
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500	LQM S4UL
		2.5%	2.8	3.5	1.9	250	1,400	1,800	LQM S4UL
		6%	6.4	8.2	4.4	560	1,400	2,100	LQM S4UL
	Tetrachloroethene (PCE)	1%	0.31	0.32	2.00	24	3,200	1400	DEFRA C4SL
		2.5%	0.70	0.71	4.8	55	3,300	1900	DEFRA C4SL
		6%	1.60	1.60	11.0	130	3,400	2,500	DEFRA C4SL
	Tetrachloromethane (carbon tetrachloride)	1%	0.03	0.03	0.45	2.9	890	190	LQM S4UL
		2.5%	0.06	0.06	1.0	6.3	920	270	LQM S4UL
		6%	0.13	0.13	2.4	14	950	400	LQM S4UL
	Trichloroethene (TCE)	1%	0.009	0.010	0.032	0.7	76.0	41.0	DEFRA C4SL
		2.5%	0.020	0.020	0.072	1.5	78.0	51.0	DEFRA C4SL
		6%	0.043	0.045	0.160	3.4	79.0	69.0	DEFRA C4SL
	cis 1,2-dichloroethene	1%	0.46	0.50	0.890	38	3,800	2,000	DEFRA C4SL
		2.5%	0.78	0.84	1.70	64	3,800	2,400	DEFRA C4SL
		6%	1.50	1.60	3.60	120	3,900	3,100	DEFRA C4SL
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600	LQM S4UL
		2.5%	1.7	2.1	0.83	170	2,500	2,800	LQM S4UL
		6%	3.4	4.2	1.7	350	2,500	3,100	LQM S4UL
	Trans-1,2 Dichloroethene	1%	0.9	0.9	3.7	69	13,000	5,600	DEFRA C4SL
		2.5%	1.6	1.7	7.5	120	13,000	7,000	DEFRA C4SL
		6%	3.3	3.4	16.0	260	13,000	9,100	DEFRA C4SL
	Chloroethene (vinyl chloride)	1%	0.006	0.015	0.0017	1.1E+00	7.8	18.0	DEFRA C4SL
		2.5%	0.010	0.019	0.0031	1.4E+00	7.8	19.0	DEFRA C4SL
		6%	0.017	0.029	0.0058	2.20	7.8	19.0	DEFRA C4SL
	2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260	LQM S4UL
		2.5%	3.7	66	0.58	1,000	130	270	LQM S4UL
		6%	8.1	66	1.4	1,000	130	270	LQM S4UL
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}	LQM S4UL
		2.5%	250	13,000	38	210,000	26,000	51,000	LQM S4UL
		6%	540	13,000	85	210,000	27,000	53,000	LQM S4UL
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}	LQM S4UL
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}	LQM S4UL
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}	LQM S4UL
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30	LQM S4UL
		2.5%	6.6	7.4	6.1	170	18	31	LQM S4UL
		6%	7.1	7.5	9.8	170	18	31	LQM S4UL
	Dieldrin	1%	0.97	7.0	0.17	170	18	30	LQM S4UL
		2.5%	2.0	7.3	0.41	170	18	30	LQM S4UL
		6%	3.5	7.4	0.96	170	18	31	LQM S4UL
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300	LQM S4UL
		2.5%	7.8	620	1.2	9,400	1,200	2,400	LQM S4UL
		6%	17.4	620	2.7	9,400	1,200	2,400	LQM S4UL
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26	LQM S4UL
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26	LQM S4UL
		6%	0.14	6.6	2.2E-02	140	16	27	LQM S4UL
	Endosulfans (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300	LQM S4UL
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400	LQM S4UL
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500	LQM S4UL
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15	LQM S4UL
		2.5%	0.2	3.8	3.2E-02	65	8.1	15	LQM S4UL
		6%	0.46	3.8	7.7E-02	65	8.1	16	LQM S4UL
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}	LQM S4UL
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}	LQM S4UL
		6%	2.4	2.4	32	290	14,000	2,900	LQM S4UL
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}	LQM S4UL
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}	LQM S4UL
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}	LQM S4UL
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}	LQM S4UL
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}	LQM S4UL
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}	LQM S4UL
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}	LQM S4UL
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120	LQM S4UL
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130	LQM S4UL
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190	LQM S4UL
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190	LQM S4UL
		6%	22	38	7.0	830	100	190	LQM S4UL
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30	LQM S4UL
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30	LQM S4UL
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POSresi	POSpark	Source
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100	LQM S4UL
		2.5%	2.0	150	0.30	4,000	620	1,100	LQM S4UL
		6%	4.5	210	0.70	4,300	620	1,100	LQM S4UL
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110	LQM S4UL
		2.5%	0.52	29	8.0E-02	400	60	120	LQM S4UL
		6%	1.2	31	0.19	400	60	120	LQM S4UL
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300	LQM S4UL
		2.5%	0.29	0.29	10	22	11,000	1,900	LQM S4UL
		6%	0.62	0.62	23	47	11,000	2,700	LQM S4UL
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48	LQM S4UL
		2.5%	0.7	0.78	0.61	66	25	50	LQM S4UL
		6%	1.6	1.8	1.4	120	25	51	LQM S4UL
	Phenol	1%	120	440 (460)	23	440 ^{dir} (26,000)	440 ^{dir} (10,000)	440 ^{dir} (7,600)	LQM S4UL
		2.5%	200	690	42	690 ^{dir} (30,000)	690 ^{dir} (10,000)	690 ^{dir} (8,300)	LQM S4UL
		6%	380	1,200	83	1,300 ^{dir} (34,000)	1,300 ^{dir} (10,000)	1,300 ^{dir} (9,300)	LQM S4UL
sol/vap = solubility/vapour limit (potentially use if free product identified, although highly conservative)									
* = naphthalene C4SL exceeds the CLEA calculated soil saturation concentration (76 mg kg-1 for 1% SOM, 183 mg kg-1 for 2.5% SOM and 432 mg kg-1 for 6% SOM)									
f = oral, dermal and inhalation exposures compared to oral HCV									
dir = S4ULs based on threshold protective of direct skin contact with phenol)brackets long term exposure for illustration purposes)									
g = derived based on 2,3,4-tetrachlorophenol									

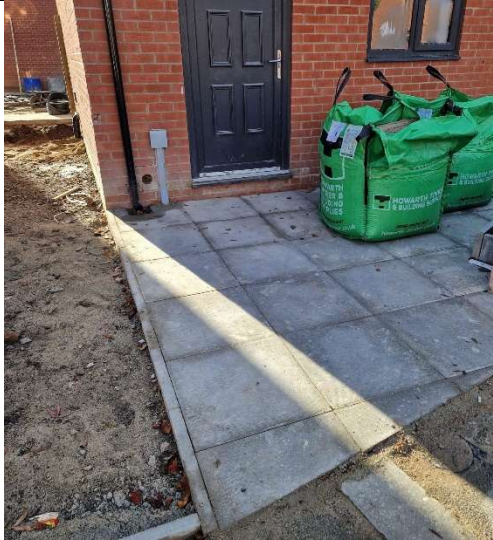
Appendix C – Validation Photographs of Front and Rear Gardens

		
Rear of Plot 1.	Downhole view of Plot 1 rear garden with membrane visible.	Depth of capping layer in Plot 1 rear garden (c. 700mm).
		
Rear of Plot 2.	Downhole view of Plot 2 rear garden with membrane visible.	Depth of capping layer in Plot 2 rear garden (c. 700mm).
		
Rear of Plot 3.	Downhole view of Plot 3 rear garden with membrane visible.	Depth of capping layer in Plot 3 rear garden (c. 700mm).

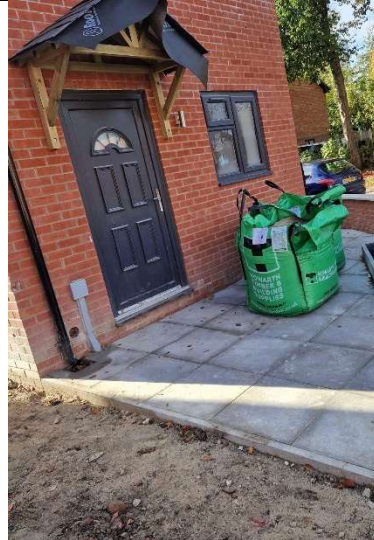
		
Rear of Plot 4.	Downhole view of Plot 4 rear garden with membrane visible.	Depth of capping layer in Plot 4 rear garden (c. 600mm).

		
Rear of Plot 5.	Downhole view of Plot 5 rear garden with membrane visible.	Depth of capping layer in Plot 5 rear garden (c. 600mm).

		
Rear of Plot 6.	Downhole view of Plot 6 rear garden with membrane visible.	Depth of capping layer in Plot 6 rear garden (c. 650mm).



Hardstanding at front of properties.



Hardstanding at front of properties.

Appendix D – Examples of Disposal Tickets

WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 282595

73540

Collection Date: 6-9-24	Delivery Date:	Drivers Name: S POWNALL
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From: ECCOFFICIENCY LTD VICTORY ST MCR		Deliver to: SED-BRYN
POC:		Stockpile:
Product: SPOIL	EWC: 170504	
Gross Weight:	Tare Weight:	Net Weight: FULL LOAD
Notes: + 1 HOURS WAITING TIME		
Vehicle: HY20 AXC		Trailer No:

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: SHUJA REHMAN	Date: 06.09.2024
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Transfer Station:- Goods Received in Good Order and Condition

Signature: S POWNALL	Print Name: S POWNALL	Date: 6-9-24
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



Landgate Farm, Landgate Lane, Bryn, Wigan WN4 0EJ

Tel: 01942 723479 Fax: 01942 726555

e-mail: info@sedservices.co.uk

VAT No: 873841200

Company Registration No: 05602201

WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

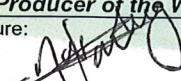
Delivery Ticket No. 282598

73407

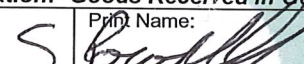
Collection Date: 6-9-24	Delivery Date:	Drivers Name: S-Pownall
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From: EFFICIENCY VICTORY ST MASS SIDE		Deliver to: SED - BLYN
POC:		Stockpile:
Product: HARDCORE		EWC:
Gross Weight:	Tare Weight:	Net Weight: FULL LOAD
Notes:		
Vehicle: HY 20 AXL		Trailer No:

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: SHUTTA	Date: 06.09.24
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Transfer Station:- Goods Received in Good Order and Condition

Signature: 	Print Name: S. BOWLEY	Date: 6-9-24
--	--------------------------	-----------------

I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 311002

Collection Date: <u>9-9-24</u>	Delivery Date:	Drivers Name: <u>S POWELL</u>
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From: <u>VICTORY ST</u> <u>ECCOFIELD</u>	Deliver to: <u>SED - BRYN</u>
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POC:	Stockpile:
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Product: <u>MIX</u> <u>HARD CORE + Spoil</u>	EWC: <u>170504</u>
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Gross Weight:	Tare Weight:	Net Weight: <u>FULL LOAD</u>
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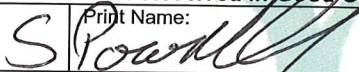
Notes:

Vehicle: <u>HY20AXC</u>	Trailer No:
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Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: <u>SHUTTA</u>	Date: <u>9-9-24</u>
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Transfer Station:- Goods Received in Good Order and Condition

Signature: 	Print Name: <u>S Powell</u>	Date: <u>9-9-24</u>
--	--------------------------------	------------------------

I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 311004

Collection Date: <u>9-9-24</u>	Delivery Date:	Driver's Name: <u>SPOWALL</u>
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From: <u>ECCOFICIENCY VICTORY RD</u>		Deliver to: <u>SED - BRYN</u>
POC:		Stockpile:
Product: <u>Spoil</u>		EWC: <u>170504</u>
Gross Weight:	Tare Weight:	Net Weight: <u>FULL LOAD</u>
Notes:		
Vehicle: <u>HYDRA XC</u>		Trailer No:

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: <u>[Signature]</u>	Print Name:	Date:
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Transfer Station:- Goods Received in Good Order and Condition

Signature: <u>[Signature]</u>	Print Name:	Date: <u>9-9-24</u>
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



ISO 9001
QUALITY MANAGEMENT



ISO 14001
ENVIRONMENTAL MANAGEMENT



ISO 45001
HEALTH & SAFETY MANAGEMENT



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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

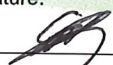
Waste Carrier No : CBDU49854

Delivery Ticket No. 311003

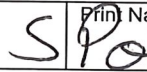
Collection Date: 9-9-24	Delivery Date:	Drivers Name: S POWELL
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From: ECCOFICIENCY		Deliver to:
VICTORY RD MOSS/SIDE		SED BRYN
POC:		Stockpile:
Product: SPOIL		EWC:
Gross Weight:	Tare Weight:	Net Weight: FULL LOAD
Notes:		
Vehicle: HY20 AXL		Trailer No:

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: SAMPERKNAY	Date: 9-9-24
---	----------------------------------	------------------------

Transfer Station:- Goods Received in Good Order and Condition

Signature: 	Print Name: SPOIL	Date: 9-9-24
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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Company Registration No: 05602201

WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 311021

74722

Collection Date: <u>16-9-24</u>	Delivery Date:	Drivers Name: <u>S POWNALL</u>
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From: <u>ECCOFICIENCY</u> <u>VICTORY RD RUSHOLME</u>		Deliver to: <u>NRE - AGGS</u> <u>PORT SALFORD RD</u>	
POC:		Stockpile:	
Product: <u>SPILL</u>		EWC: <u>170504</u>	
Gross Weight:	Tare Weight:	Net Weight: <u>16000</u>	
Notes: <u>ON BEHALF SHAJID REHMAN</u>			
Vehicle: <u>HY20 AXC</u>		Trailer No:	

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: <u>SAMER KHAIR</u>	Date: <u>16-9-24</u>
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Transfer Station:- Goods Received in Good Order and Condition

Signature: <u>S POWNALL</u>	Print Name: <u>S POWNALL</u>	Date: <u>16-9-24</u>
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 311019

74723

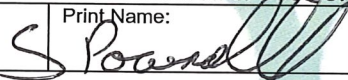
Collection Date: <u>16-9-24</u>	Delivery Date:	Drivers Name: <u>SPOWALL</u>
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From: <u>EFFICIENCY VICTORY STREET</u>		Deliver to: <u>DEEL HOLDINGS</u>	
POC: <u>(RUSHOLME)</u>		Stockpile:	
Product: <u>SPOC</u>		EWC: <u>17-05-04</u>	
Gross Weight:	Tare Weight:	Net Weight: <u>16000</u>	
Notes: <u>ON BEHALF OF SHAJID REHMAN</u>			
Vehicle: <u>HY 20 AXC</u>		Trailer No:	

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: <u>Samer Khan</u>	Date: <u>16.09.24</u>
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Transfer Station:- Goods Received in Good Order and Condition

Signature: 	Print Name: <u>S. Spowall</u>	Date: <u>16-9-24</u>
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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

Waste Carrier No : CBDU49854

Delivery Ticket No. 297026

Collection Date: 23/9/24	Delivery Date: 23/9/24	Drivers Name: Joe Bell
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From: Ecoficiency		Deliver to: Kearsley	
POC: Victory St, manchester		Stockpile:	
Product: muck		EWC:	
Gross Weight: 1x full load	Tare Weight:	Net Weight:	
Notes: Grab			
Vehicle: mv71 xyp		Trailer No:	

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: Samer	Date: 23.09.24
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Transfer Station:- Goods Received in Good Order and Condition

Signature:	Print Name:	Date:
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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WASTE TRANSFER NOTE / DUTY OF CARE

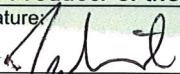
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Waste Carrier No : CBDU49854

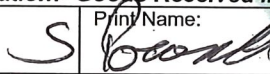
Delivery Ticket No. 311047

Collection Date: 26-9-24	Delivery Date:	Drivers Name: S Pownall
From: ECCOFICIENCY VICTORY RD RUSHOLME	Deliver to: SED - BLYN	
POC:	Stockpile:	
Product: Spod	EWC: 170504	
Gross Weight:	Tare Weight:	Net Weight: 16000
Notes:		
Vehicle: HY20 AXC	Trailer No:	

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: Z. Smith	Date: 26/9/24
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Transfer Station:- Goods Received in Good Order and Condition

Signature: 	Print Name: S Pownall	Date: 26-9-24
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.



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WASTE TRANSFER NOTE / DUTY OF CARE

Permit : EPR/MP3135DF Permit : EPR/MP3093VU

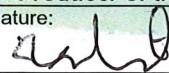
Waste Carrier No : CBDU49854

Delivery Ticket No. 297047

Collection Date: <u>2/10/24</u>	Delivery Date: <u>2/10/24</u>	Drivers Name: <u>Joe Bell</u>
------------------------------------	----------------------------------	----------------------------------

From: <u>Victory St. Rusholme</u>		Deliver to: <u>SED, Wigan</u>
POC: <u>Ecoficiency</u>		Stockpile:
Product: <u>muck</u>		EWC:
Gross Weight: <u>1 x full load</u>	Tare Weight:	Net Weight: <u>FULL LOAD</u>
Notes: <u>Grab</u>		
Vehicle: <u>mu71 xyp</u>		Trailer No:

Producer of the Waste:- Goods Collected in Good Order and Condition

Signature: 	Print Name: <u>Shuja</u>	Date: <u>2/10/24</u>
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Transfer Station:- Goods Received in Good Order and Condition

Signature:	Print Name:	Date:
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I certify that the "Waste Hierarchy" has been applied as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.




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Appendix E - References

¹ DCL (2019). "National Planning Policy Framework." Department of Communities and Local Government.

¹⁰ EA (2008). "CLEA Software (Version 1.05) Handbook." Science Report – SC050021/SR4.

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