

LAND ADJACENT TO KINGSBRIDGE ROAD AND CAMELIA ROAD, HARPURHEY

SITE COMPLETION REPORT

Job Number: LKC 22 1442
Date: 10th November 2022
Client: Prime Developers Ltd



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LK Consult			
Document Verification			
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Report Title	Site Completion Report		
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Other works including *inter alia* drainage, soil texture, permitting, invasive species management and land instability are outside the scope of this report and should be dealt with by others.

Those using this information in subsequent assessments or evaluations do so at their own risk.

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1 Introduction

1.1 Background

LK Consult Ltd (LKC) has been commissioned by Prime Developers Ltd to provide a Site Completion Report for land adjacent to Kingsbridge Road and Camelia Road, Harpurhey (planning reference 110464/MO/2015/N1).

The site is approximately 0.57ha and centred around NGR 385430N 401210E (Figures 1 and 2). The development comprises the construction of 12no. semi-detached residential properties with associated private gardens and car parking. (Figure 3).

The aim of the Site Completion Report will be to demonstrate to Local Authority that the site has been suitably remediated in line with the Remediation Strategy.

The Site Completion Report has been provided to satisfy Contaminated Land Condition 14(b) only. The assessment of other matters such as *inter alia* invasive species and land instability are outside the scope of this assessment. Details are provided in the following Sections.

1.2 Summary of Required Validation Work

The required validation work was based on the Final Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy undertaken by LKC (Ref: LKC 17 1427-02, dated 4th May 2018).

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

- Provision of a clean' capping layer within garden/soft landscaping areas to comprise of either:
 - Removal of all reworked topsoil/made ground from garden and soft landscaping areas and raise levels (as required) with suitably chemically validated topsoil and subsoil,
- Or;
- Minimum 600mm thick 'clean' capping layer within rear gardens nominally comprising a geotextile membrane laid at the base overlain by at least 600mm clean inert fill and sufficient topsoil for a growing medium.
- Minimum 300mm thick 'clean' capping layer with front landscaped areas nominally comprising a geotextile membrane laid at the base overlain by at least 300mm clean inert fill and sufficient topsoil for a growing medium.
- Chemical analysis of any site won or imported material for use in garden or landscaped areas.
- Information on the installation of protective potable pipework.
- Provision of disposal tickets if material is removed offsite.
- Details of any unexpected contamination.

Selected photographs of the completed site are presented in Appendix A.

2 Environmental Capping Layer Material

2.1 Sampling Frequency and Chemical Testing

As per the Remediation Strategy, the soil used in capping layers was subject to the following sampling frequency and testing detailed below in Table 2-1.

Material Type	Source	Suite of Analysis	Sampling Rate*
Topsoil	Greenfield	Suite A	1 sample per 50m³
	Brownfield / Unknown	Suite B	
Subsoil	Brownfield / Unknown	Suite B	1 sample per 150m³
	Site won natural material	Suite A	
Physical Stone Break Layer	First Generation i.e. quarried sand (subsoil) or stone (break layer)	No testing is required. Certification of material provenance is required.	
	Recycled Stone (6F2 / screened)	Suite B	1 sample per 500m³

Table 2-1: Sampling requirements for imported soils.

Notes:

Suite A - Heavy metals, pH, water soluble sulphate, speciated PAH, soil organic matter and asbestos screen.

Suite B - Heavy metals, pH, water soluble sulphate, speciated PAH, phenol, total and free cyanide, soil organic matter, asbestos screen, banded petroleum hydrocarbons (TPH CWG), BTEX, MTBE.

*Minimum sampling rate of 3 samples per source.

Any soil with visual or olfactory evidence of hydrocarbons should be rejected.

2.2 Soil Assessment Criteria

As stated in the Final Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy, results of the imported soil testing were screened against appropriate assessment criteria for a residential without plant uptake use.

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

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

A summary of the generic assessment criteria is provided in Appendix B.

2.3 Topsoil Analysis

Topsoil for use in the garden and soft landscaping areas has been imported to site. Approximately 200m³ of topsoil was imported from Frank O'Gara & Sons Ltd of Irlam. Example delivery tickets are presented in Appendix C.

To comply with the agreed sampling rate of 1 sample per 50m³, a total of 4no. composite soil samples were taken directly from the garden areas (reference TS Plot 6 rear, TS Plot 3 rear) and from stockpiles onsite (referenced TS Plots 2-3 stockpile and TS Plot 3-4 rear).

Composite soil samples of approximately 1kg were recovered in amber jars, amber vials for volatile analysis and plastic tubs. All the samples were labelled and stored in cool boxes prior to being collected by courier at the end of the day for delivery to the Chemtest laboratory in Newmarket. If collection was not possible the same day then samples were stored in the sample storage fridge at the LK Group offices below 4°C. Samples were tracked using appropriate Chain of Custody forms provided by Chemtest. All followed standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation¹.

LKC assumed a brownfield/unknown source and as per the Remediation Strategy and the following were analysed:

¹ EA (2000). "Technical Aspects Of Site Investigation. Volumes 1 & 2 Text Supplements Research and Development Technical Report." P5-065/Tr.

- Arsenic, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc, water soluble sulphate, pH, USEPA PAH 16, organic matter, boron, banded petroleum hydrocarbons (TPHCWG), BTEX, MTBE, cyanide suite, asbestos identification and phenols.

When compared to appropriate screening values (Appendix B), no elevated contaminants were identified in the topsoil. All soil laboratory certificates of analysis are presented in Appendix C.

2.4 Subsoil Analysis

Subsoil for use in the garden and soft landscaping areas has been imported to site. Approximately 20m³ of sand subsoil was imported from A1 Services (Manchester) Ltd of Swinton. Example delivery tickets are presented in Appendix D.

To comply with the required sampling rate, 3no. composite subsoil samples were taken from the stockpile onsite (referenced IS1 to IS3).

Composite soil samples of approximately 1kg were recovered in amber jars, amber vials for volatile analysis and plastic tubs. All the samples were labelled and stored in cool boxes prior to being collected by courier at the end of the day for delivery to the Chemtest laboratory in Newmarket. If collection was not possible the same day then samples were stored in the sample storage fridge at the LK Group offices below 4°C. Samples were tracked using appropriate Chain of Custody forms provided by Chemtest. All followed standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation².

LKC assumed a brownfield/unknown source and as per the Remediation Strategy and the following were analysed:

- Arsenic, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc, water soluble sulphate, pH, USEPA PAH 16, organic matter, boron, banded petroleum hydrocarbons (TPHCWG), BTEX, MTBE, cyanide suite, asbestos identification and phenols.

When compared to appropriate screening values (Appendix B), no elevated contaminants were identified in the subsoil. All soil laboratory certificates of analysis are presented in Appendix D.

2.5 Capping Layer Depth

The recommendation for the landscaped area capping layer was that made ground should be removed down to natural clay strata or it should comprise a minimum 600mm thick 'clean' capping layer with basal geotextile membrane in rear gardens and 300mm thick 'clean' capping layer with basal geotextile membrane in front gardens.

LKC carried out several site visits between the 17th August and 4th October 2022 to inspect the capping layer construction and depth. Photographs are provided in Appendix E and the observations are summarised below in Table 2-2. A plan of the validation locations is provided in Figure 3.

Location	All Made Ground removed?	Geotextile Present?	Topsoil Depth (mm)	Subsoil Depth (mm)	Total Depth (mm)	Pass (✓) or Fail (x)
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² EA (2000). "Technical Aspects Of Site Investigation. Volumes 1 & 2 Text Supplements Research and Development Technical Report." P5-065/Tr.

Plot 1 Front	No front garden					✓
Plot 1 Rear	Yes	No	300	Natural clay present	300	✓
Plot 2 Front	No	Yes	150	200	350	✓
Plot 2 Rear	Yes	No	300	Natural clay present	300	✓
Plot 3 Front	Yes	No	150	-	150	✓
Plot 3 Rear	Yes	No	290	Natural clay present	290	✓
Plot 4 Front	Yes	No	150	-	150	✓
Plot 4 Rear	Yes	No	420	Natural clay present	420	✓
Plot 5 Front	No	Yes	150	180	330	✓
Plot 5 Rear	Yes	No	150	Natural clay present	150	✓
Plot 6 Front	No	Yes	150	180	330	✓
Plot 6 Rear	Yes	No	150	Natural clay present	150	✓
Plot 74 Front	No	Yes	150	200	350	✓
Plot 74 Rear	Yes	No	160	200 and natural clay	360	✓
Plot 76 Front	No	Yes	200	100	300	✓
Plot 76 Rear	Yes	No	220	100 and natural clay	320	✓
Plot 78 Front	No	Yes	150	150	300	✓
Plot 78 Rear	Yes	No	150	Natural clay present	150	✓
Plot 80 Front	No	Yes	180	150	330	✓
Plot 80 Rear	Yes	No	200	Natural clay present	200	✓
Plot 82 Front	No	Yes	200	200	400	✓
Plot 82 Rear	No	Yes	160	450	610	✓
Plot 84 Front	No	Yes	200	200	400	✓
Plot 84 Rear	No	Yes	160	450	610	✓

Table 2-2: Summary of capping layer material and depths.

LKC were able to verify that, in the places inspected within the landscaped areas, the cover layer soil has been placed to an appropriate depth over either natural clay or a separation geotextile membrane.

3 Potable Water Supply

LKC understand the barrier pipework has been connected through the site. LKC considers the potable pipework is suitable based on United Utilities (UU) undertaking the connection. UU would not connect if there were any concerns and is in line with LKC recommendation in the site investigation report. Evidence of the purchase of barrier pipe is presented in Appendix F.

4 Offsite Waste Disposal

LKC understand that approximately 270 tonnes of material was removed offsite and disposed of by A1 Services (Manchester) Ltd and AMP NW Ltd. Example disposal tickets are presented in Appendix G.

5 Unexpected Contamination

LKC understand from the contractors that no unexpected contamination was encountered during excavation and demolition.

6 Conclusion

The work onsite has been validated in accordance with the agreed Remediation Strategy.

Therefore, LKC considers there is sufficient information in this report to support an application to Manchester City Council to discharge the outstanding contaminated land planning condition (14b).

FIGURES

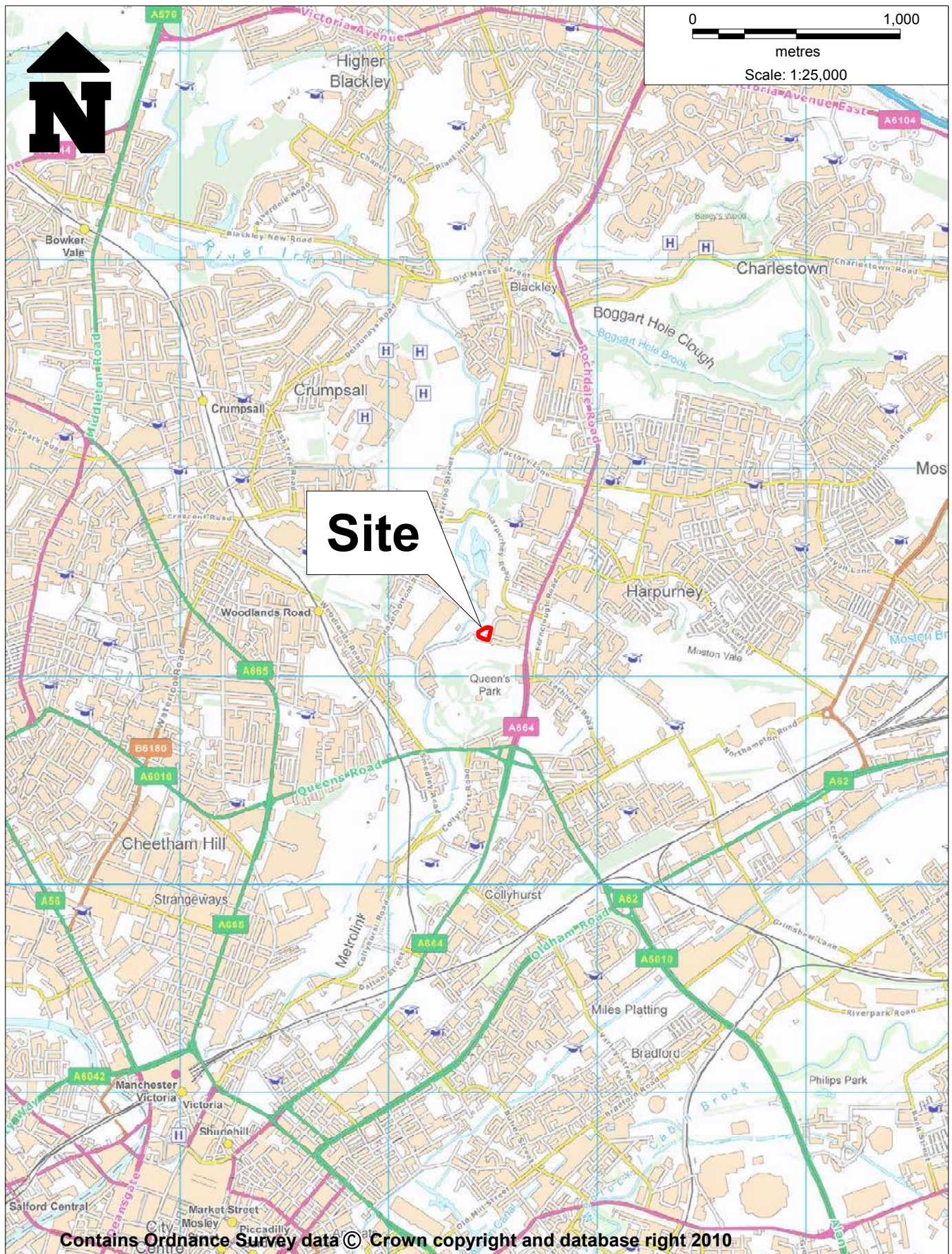
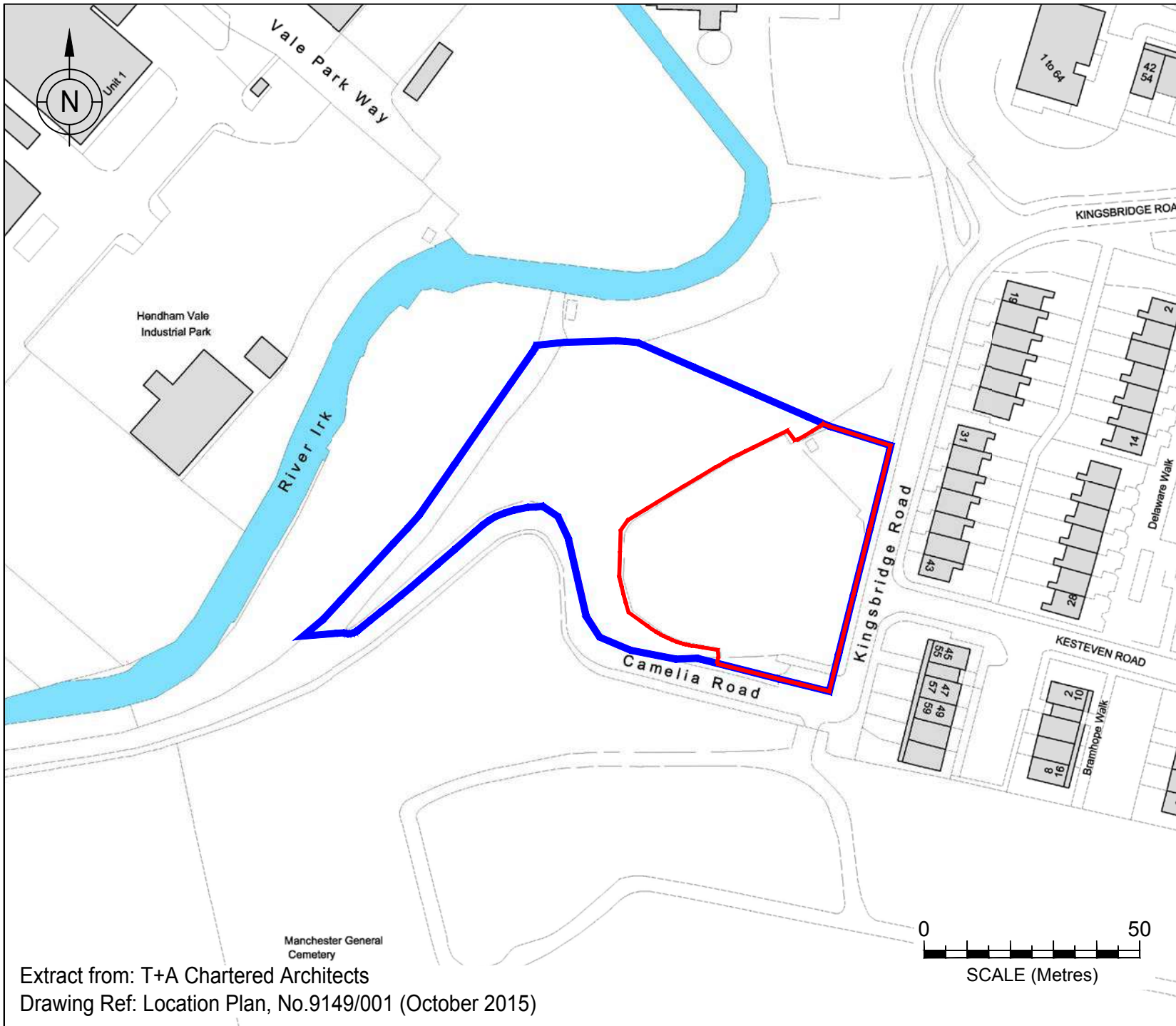


Figure 1: Site Location Plan, Kingsbridge Road, Harpurhey

Drawn: December 2017 Scale: 1:25,000 @ A4 (see scale bar)





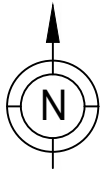
KEY

- Development Area Boundary
- Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



Client: Prime Developers Limited			
Site: Kingsbridge Road, Harpurhey			
Title: Site Boundary Plan			
Job No.: LKC 17 1427	Scale (See Scale Bar): 1:1250 @ A4	Figure: 2	Revision:
Drawn By: AC	Checked By: RP	Drawn: Dec 2017	



KEY

- Development Area Boundary
- House/Plot Number

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



Client: Prime Developers Limited			
Site: Kingsbridge Road, Harpurhey			
Title: Site Layout Plan			
Job No.: LKC 22 1442	Scale (See Scale Bar): 1:500 @ A4	Figure: 3	Revision:
Drawn By: AC	Checked By: RP	Drawn: Oct 2022	

Extract from: DK Architects
Drawing Ref: Proposed Site Plan, No.NK.335.01C, Rev:C (06/07/2015)

APPENDIX A

SITE PHOTOGRAPHS



Photographs 1-2: Site photographs showing site almost complete.

APPENDIX B

GENERIC ASSESSMENT CRITERIA VALUES

Summary of Category 4 Screening Levels: 2015

Substance	Residential (with home- grown produce)	Residential (without home- grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37 mg/kg	40 mg/kg	49 mg/kg	640 mg/kg	79 mg/kg	170 mg/kg
Benzene	0.87 mg/kg	3.3 mg/kg	0.18 mg/kg	98 mg/kg	140 mg/kg	230 mg/kg
Benzo(a)pyrene	5.0 mg/kg	5.3 mg/kg	5.7 mg/kg	77 mg/kg	10 mg/kg	21 mg/kg
Cadmium	22 mg/kg	150 mg/kg	3.9 mg/kg	410 mg/kg	220 mg/kg	880 mg/kg
Chromium VI	21 mg/kg	21 mg/kg	170 mg/kg	49 mg/kg	21 mg/kg	250 mg/kg
Lead	200 mg/kg	310 mg/kg	80 mg/kg	2300 mg/kg	630 mg/kg	1300 mg/kg

Summary Table for the Generic Assessment Criteria for Human Health Risk Assessment Land Quality Management (LQM) S4ULs.

All GAC are based on sandy loam soils with a pH 7.

		LQM Generic Assessment Criteria (mg/kg) Dry weight soil						
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Metals	Inorganic Arsenic	6%	37	40	43	640	79	170
	Beryllium	6%	1.7	1.7	35	12	2.2	63
	Boron	6%	290	11,000	45	240,000	21,000	46,000
	Cadmium	6%	11	85	1.9	190	120	532
	Chromium (III)	6%	910	910	18,000	8,600	1,500	33,000
	Chromium (VI)	6%	6.0	6.0	1.8	33	7.7	220
	Copper	6%	2,400	7,100	520	68,000	12,000	44,000
	Elemental Mercury	6%	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}
	Inorganic Mercury	6%	40	56	19	1,100	120	240
	Methylmercury	6%	11	15	6.0	320	40	68
	Nickel	6%	180	180	230	980	230	3,400
	Selenium	6%	250	430	88	12,000	1,100	1,800
	Vanadium	6%	410	1,200	91	9,000	2,000	5,000
	Zinc	6%	3,700	40,000	620	730,000	81,000	170,000
BTEX Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90
		2.5%	0.17	0.70	0.034	47	72	100
		6%	0.37	1.4	0.075	90	73	110
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}

NOTES

^{sol/vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

All GAC are based on sandy loam soils with a pH 7.			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000
		2.5%	5,400	35,000	950	540,000	74,000	150,000
		6%	11,000	37,000	2,200	540,000	74,000	150,000
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49
		2.5%	11	14	6.5	170	29	56
		6%	13	15	13	180	29	62
	Benzo(a)pyrene (only)	1%	2.2	3.2	0.97	35	5.7	11
		2.5%	2.7	3.2	2.0	35	5.7	12
		6%	3.0	3.2	3.5	36	5.7	13
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13
		2.5%	3.3	4.0	2.1	44	7.2	15
		6%	3.7	4.0	3.9	45	7.2	16
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400
		2.5%	340	360	470	4,000	640	1,500
		6%	350	360	640	4,000	640	1,600
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370
		2.5%	93	110	75	1,200	190	410
		6%	100	110	130	1,200	190	440
	Chrysene	1%	15	30	4.1	350	57	93
		2.5%	22	31	9.4	350	57	110
		6%	27	32	19	350	57	120
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3
		6%	0.3	0.32	0.43	3.6	0.58	1.4
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300
		2.5%	560	1,600	130	23,000	3,100	6,300
		6%	890	1,600	290	23,000	3,100	6,400
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150
		2.5%	36	46	21	510	82	170
		6%	41	46	39	510	82	180
	Naphthalene	1%	2.3 ^f	2.3 ^f	4.1 ^f	190 ^f (76.4) ^{sol}	4,900 ^f	1,200 ^f (76.4) ^{sol}
		2.5%	5.6 ^f	5.6 ^f	10 ^f	460 ^f (183) ^{sol}	4,900 ^f	1,900 ^f (183) ^{sol}
		6%	13 ^f	13 ^f	24 ^f	1,100 ^f (432) ^{sol}	4,900 ^f	3,000
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200
		2.5%	220	1,500	38	22,000	3,100	6,200
		6%	440	1,500	90	22,000	3,100	6,300
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000
		2.5%	1,200	3,800	270	54,000	7,400	15,000
		6%	2,000	3,800	620	54,000	7,400	15,000
Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	
	2.5%	0.98	1.2	0.67	15	2.2	4.7	
	6%	1.1	1.2	1.2	15	2.2	4.8	

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = naphthalene is based on comparison of inhalation exposure with TDI_{inhal} for localised effect.

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Aliphatic							
EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}
EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}
EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}
EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}
EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}
EC>16-35	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
EC>35-44	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
Aliphatic							
EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}
EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}
EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}
EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}
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}
EC>16-35	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
EC>35-44	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
Aliphatic							
EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}
EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}
EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}
EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}
EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}
EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
Aromatic							
EC5-7(benzene as non-threshold)	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}
EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}
EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}
EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000
EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f
EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}
EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}
EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}
EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}
EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000
EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f
EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}
EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}
EC>10-12	6%	380	1,200	74	34,000(2,150) ^{sol}	5,000	10,000
EC>12-16	6%	660	2,500	130	38,000	5,100	10,000
EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
Aliphatic	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f
+Aromatic	2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f
>EC44	6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f

NOTES

^{sol}/^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

		LQM Generic Assessment Criteria (mg/kg) Dry weight soil						
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	7.1E-03	9.2E-03	4.6E-03	0.67	29	21
		2.5%	1.1E-02	1.3E-02	8.3E-03	0.97	29	24
		6%	1.9E-02	2.3E-02	1.6E-02	1.7	29	28
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}
		6%	39	40	240	3,000	140,000	100,000 (6,392) ^{vap}
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800
		2.5%	3.4	8.0	0.89	550	1,400	2,100
		6%	7.5	17	2.0	1,100	1,400	2,300
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500
		2.5%	2.8	3.5	1.9	250	1,400	1,800
		6%	6.4	8.2	4.4	560	1,400	2,100
	Tetrachloroethene (PCE)	1%	0.18	0.18	0.65	19	1,400	810 (424) ^{sol}
		2.5%	0.39	0.40	1.5	42	1,400	1,100 (951) ^{sol}
		6%	0.90	0.92	3.6	95	1,400	1,500
	Tetrachloromethane (carbon tetrachloride)	1%	2.6E-02	2.6E-02	0.45	2.9	890	190
		2.5%	5.6E-02	5.6E-02	1.0	6.3	920	270
		6%	0.13	0.13	2.4	14	950	400
	Trichloroethene (TCE)	1%	1.6E-02	1.7E-02	4.1E-02	1.2	120	70
		2.5%	3.4E-02	3.6E-02	9.1E-02	2.6	120	91
		6%	7.5E-02	8.0E-02	0.21	5.7	120	120
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600
		2.5%	1.7	2.1	0.83	170	2,500	2,800
		6%	3.4	4.2	1.7	350	2,500	3,100
	Chloroethene (vinyl chloride)	1%	6.4E-04	7.7E-04	5.5E-04	5.9E-02	3.5	4.8
		2.5%	8.7E-04	1.0E-03	1.0E-03	7.7E-02	3.5	5.0
		6%	1.4E-03	1.5E-03	1.8E-03	0.12	3.5	5.4
	2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260
		2.5%	3.7	66	0.58	1,000	130	270
		6%	8.1	66	1.4	1,000	130	270
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}
		2.5%	250	13,000	38	210,000	26,000	51,000
		6%	540	13,000	85	210,000	27,000	53,000
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30
		2.5%	6.6	7.4	6.1	170	18	31
		6%	7.1	7.5	9.8	170	18	31
	Dieldrin	1%	0.97	7.0	0.17	170	18	30
		2.5%	2.0	7.3	0.41	170	18	30
		6%	3.5	7.4	0.96	170	18	31
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300
		2.5%	7.8	620	1.2	9,400	1,200	2,400
		6%	17.4	620	2.7	9,400	1,200	2,400
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26
		6%	0.14	6.6	2.2E-02	140	16	27
	Endosulfans (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15
		2.5%	0.2	3.8	3.2E-02	65	8.1	15
		6%	0.46	3.8	7.7E-02	65	8.1	16

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

All GAC are based on
sandy loam soils with a pH
7.

All GAC are based on sandy loam soils with a pH 7.			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}
		6%	2.4	2.4	32	290	14,000	2,900
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190
		6%	22	38	7.0	830	100	190
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100
		2.5%	2.0	150	0.30	4,000	620	1,100
		6%	4.5	210	0.70	4,300	620	1,100
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110
		2.5%	0.52	29	8.0E-02	400	60	120
		6%	1.2	31	0.19	400	60	120
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300
		2.5%	0.29	0.29	10	22	11,000	1,900
		6%	0.62	0.62	23	47	11,000	2,700
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48
		2.5%	0.7	0.78	0.61	66	25	50
		6%	1.6	1.8	1.4	120	25	51
	Phenol	1%	280	750	66	760 ^{dir} (31,000)	760 ^{dir} (11,000)	760 ^{dir} (8,600)
		2.5%	550	1,300	140	1,500 ^{dir} (35,000)	1,500 ^{dir} (11,000)	1,500 ^{dir} (9,700)
		6%	1,100	2,300	280	3,200 ^{dir} (37,000)	3,200 ^{dir} (11,000)	3,200 ^{dir} (11,000)

NOTES

^{sol / vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^{dir} = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

^g = derived based on 2,3,4,6-tetrachlorophenol.

APPENDIX C

CERTIFICATES OF ANALYSIS – TOPSOIL AND DELIVERY TICKETS



Final Report

Report No.: 22-31281-1
Initial Date of Issue: 22-Aug-2022
Client LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS
Contact(s): Contaminated Land
Emma Khadun
Rachel Peart
Project LKC 22 1442 Queens Park Close,
Harpurhey

Quotation No.:		Date Received:	17-Aug-2022
Order No.:	740499	Date Instructed:	17-Aug-2022
No. of Samples:	7		
Turnaround (Wkdays):	5	Results Due:	23-Aug-2022
Date Approved:	22-Aug-2022		

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: LKC 22 1442 Queens Park Close, Harpurhey

Client: LK Consult	Chemtest Job No.:				22-31281	22-31281	22-31281	22-31281	22-31281	22-31281	22-31281
Quotation No.:	Chemtest Sample ID.:				1488771	1488772	1488773	1488774	1488775	1488776	1488777
	Client Sample ID.:				TS	Clay	TS	Clay	TS	Clay	Sand
	Sample Location:				Plot 6 Rear	Plot 6 Rear	Plot 3 Rear	Plot 3 Rear	Plots 2-3 TS Stockpile	Plot 3 Front	Plot 3 Front
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	-	-	-	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	11	15	12	14	12	19	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay	Sand	Clay	Sand
Chromatogram (TPH)	N			N/A	See Attached		See Attached		See Attached		
pH	M	2010		4.0	7.9	8.4	7.8	8.0	8.0	7.9	7.6
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.66		0.66		1.0		
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.28	0.012	0.12	0.018	0.44	0.083	0.16
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50		< 0.50		< 0.50		
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50		< 0.50		< 0.50		
Arsenic	M	2455	mg/kg	0.5	4.4	3.5	5.7	4.4	6.7	6.4	4.3
Cadmium	M	2455	mg/kg	0.10	< 0.10	0.11	0.15	0.31	0.10	0.12	< 0.10
Chromium	M	2455	mg/kg	0.5	6.7	18	11	17	8.6	16	8.7
Copper	M	2455	mg/kg	0.50	14	14	21	20	18	19	14
Mercury	M	2455	mg/kg	0.05	0.09	< 0.05	0.06	< 0.05	0.12	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	8.4	20	9.6	28	8.6	29	16
Lead	M	2455	mg/kg	0.50	28	6.5	27	11	58	11	12
Selenium	M	2455	mg/kg	0.25	< 0.25	0.28	< 0.25	0.53	< 0.25	0.34	0.27
Vanadium	U	2455	mg/kg	0.5	7.5	12	11	16	11	16	8.6
Zinc	M	2455	mg/kg	0.50	40	40	34	52	64	52	38
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.9	1.2	2.8	3.6	4.1	1.6	0.95
Diesel Present	N	2670		N/A	False		False		False		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0		< 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		

Results - Soil

Project: LKC 22 1442 Queens Park Close, Harpurhey

Client: LK Consult	Chemtest Job No.:				22-31281	22-31281	22-31281	22-31281	22-31281	22-31281	22-31281
Quotation No.:	Chemtest Sample ID.:				1488771	1488772	1488773	1488774	1488775	1488776	1488777
	Client Sample ID.:				TS	Clay	TS	Clay	TS	Clay	Sand
	Sample Location:				Plot 6 Rear	Plot 6 Rear	Plot 3 Rear	Plot 3 Rear	Plots 2-3 TS Stockpile	Plot 3 Front	Plot 3 Front
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Date Sampled:				16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022	16-Aug-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD							
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0		< 5.0		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10		< 10		< 10		
Benzene	M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0		
Toluene	M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0		
Ethylbenzene	M	2760	µg/kg	1.0	5.8		< 1.0		< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0	22		9.0		< 1.0		
o-Xylene	M	2760	µg/kg	1.0	6.0		2.1		< 1.0		
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0		
Naphthalene	M	2800	mg/kg	0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	1.6	< 0.10	0.42	< 0.10	0.96	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	0.24	< 0.10	0.11	< 0.10	0.27	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	2.8	< 0.10	0.77	< 0.10	2.0	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	2.4	< 0.10	0.63	< 0.10	1.9	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.88	< 0.10	0.33	< 0.10	0.88	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	1.1	< 0.10	0.43	< 0.10	0.79	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	1.5	< 0.10	< 0.10	< 0.10	1.4	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.60	< 0.10	< 0.10	< 0.10	0.40	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	1.1	< 0.10	< 0.10	< 0.10	0.95	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	13	< 2.0	2.7	< 2.0	9.6	< 2.0	< 2.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10		< 0.10		< 0.10		

TPH Chromatogram on Soil Sample: 1488771

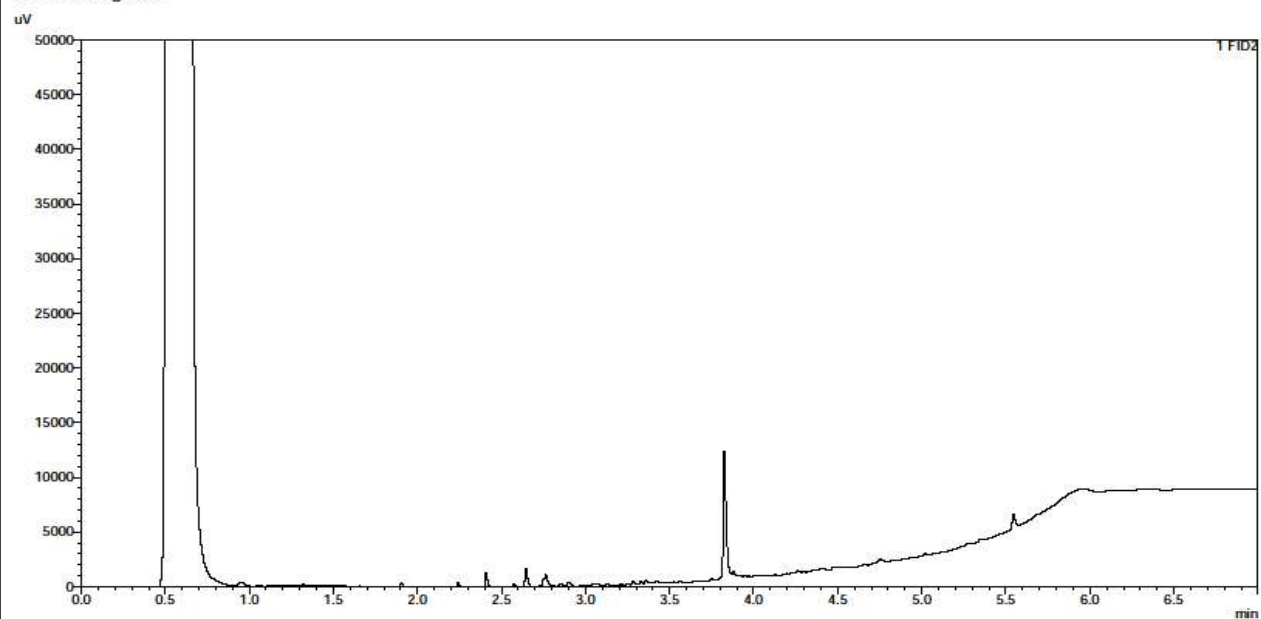
<Sample Information>

Sample Name : Back 1488771 22-31281
Data Filename : 2022-08-17_17082022_Back 1488771 22-31281_090.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 120
Date Acquired : 18/08/2022 01:07:27
Date Processed : 18/08/2022



Chemtest

<Chromatogram>



TPH Chromatogram on Soil Sample: 1488773

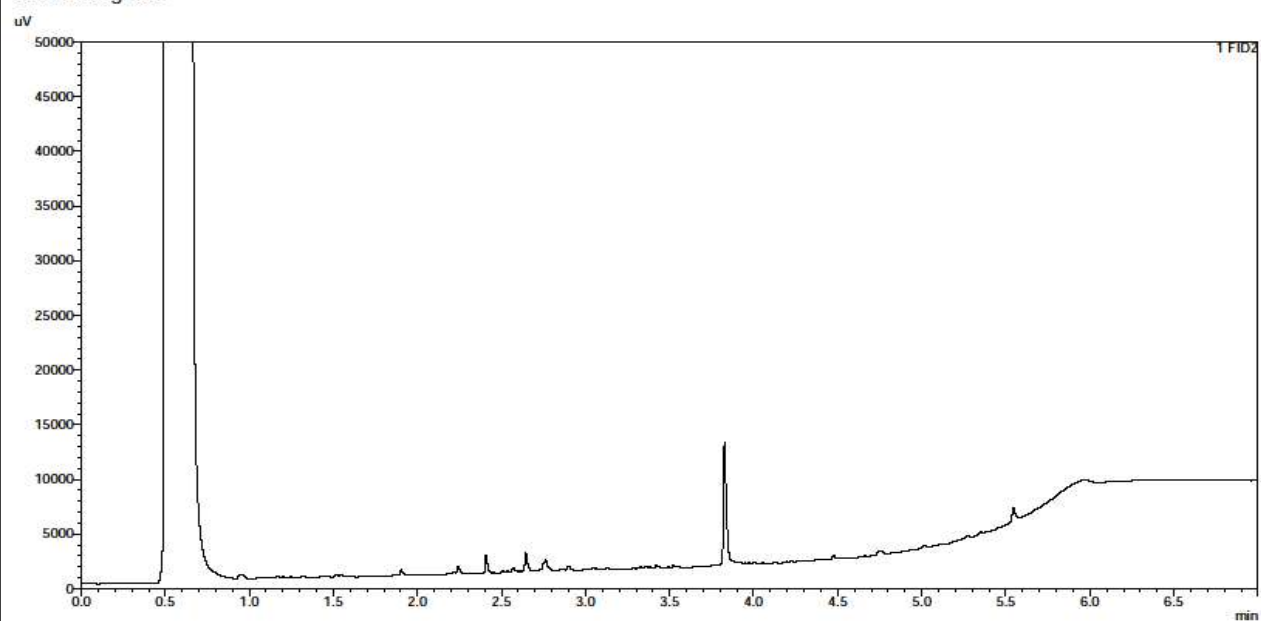
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Sample Name : Back 1488773 22-31281
Data Filename : 2022-08-17_17082022_Back 1488773 22-31281_096.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 123
Date Acquired : 18/08/2022 01:45:19
Date Processed : 18/08/2022



Chemtest

<Chromatogram>



TPH Chromatogram on Soil Sample: 1488775

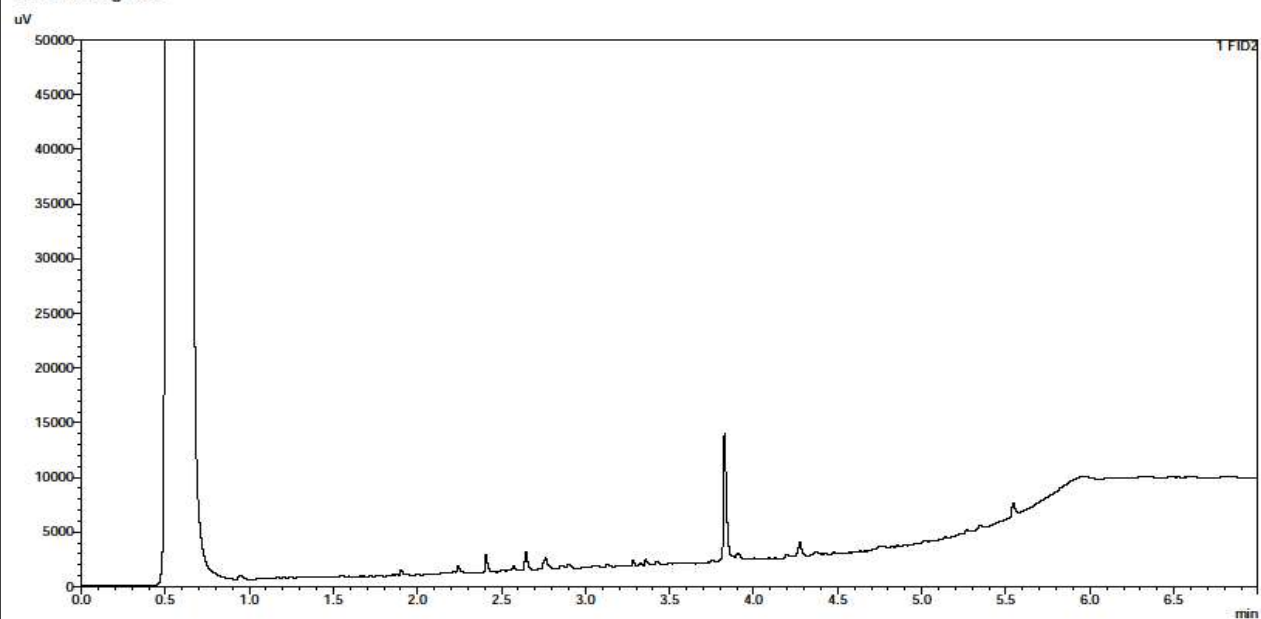
<Sample Information>

Sample Name : Back 1488775 22-31281
Data Filename : 2022-08-17_17082022_Back 1488775 22-31281_098.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 124
Date Acquired : 18/08/2022 01:57:59
Date Processed : 18/08/2022



Chemtest

<Chromatogram>



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
22-31281	1488771	S	Plot 6 Rear		TS		No	N/A
22-31281	1488773	S	Plot 3 Rear		TS		No	N/A
22-31281	1488775	S	Plots 2-3 TS Stockpile		TS		No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 22-33463-1
Initial Date of Issue: 08-Sep-2022
Client LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS
Contact(s): Contaminated Land
Emma Khadun
Rachel Peart
Project LKC 22 1442 Queens Park Close,
Harphurey

Quotation No.:		Date Received:	02-Sep-2022
Order No.:	740550	Date Instructed:	02-Sep-2022
No. of Samples:	1		
Turnaround (Wkdays):	5	Results Due:	08-Sep-2022
Date Approved:	08-Sep-2022		

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: LKC 22 1442 Queens Park Close, Harphurey

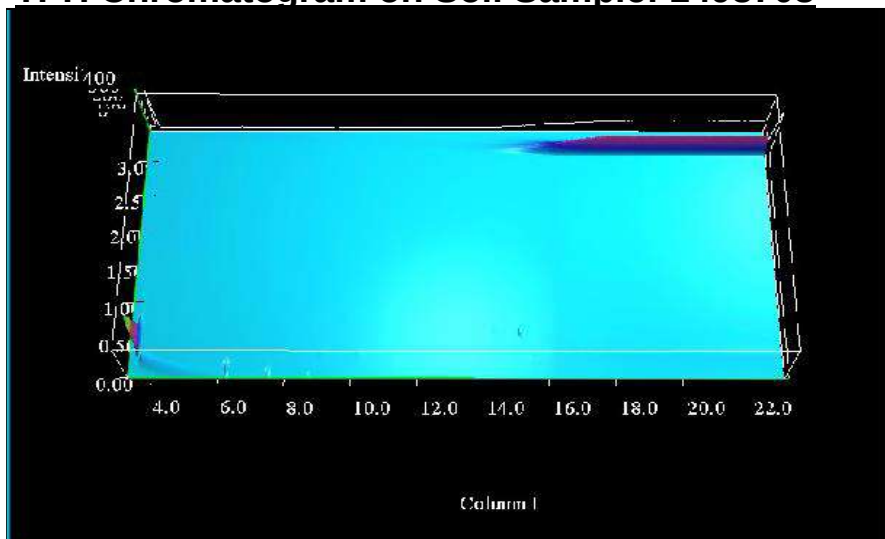
Client: LK Consult	Chemtest Job No.:		22-33463		
Quotation No.:	Chemtest Sample ID.:		1498708		
	Client Sample ID.:		TS4		
	Sample Location:		Plot 3-4 Rear		
	Sample Type:		SOIL		
	Date Sampled:		31-Aug-2022		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	11
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones and Roots
Soil Texture	N	2040		N/A	Sand
Chromatogram (TPH)	N			N/A	See Attached
pH	M	2010		4.0	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.45
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.18
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50
Arsenic	M	2455	mg/kg	0.5	6.0
Cadmium	M	2455	mg/kg	0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	8.0
Copper	M	2455	mg/kg	0.50	22
Mercury	M	2455	mg/kg	0.05	0.39
Nickel	M	2455	mg/kg	0.50	9.2
Lead	M	2455	mg/kg	0.50	29
Selenium	M	2455	mg/kg	0.25	0.33
Vanadium	U	2455	mg/kg	0.5	10
Zinc	M	2455	mg/kg	0.50	33
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Organic Matter	M	2625	%	0.40	2.5
Diesel Present	N	2670		N/A	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0

Results - Soil

Project: LKC 22 1442 Queens Park Close, Harphurey

Client: LK Consult	Chemtest Job No.:		22-33463		
Quotation No.:	Chemtest Sample ID.:		1498708		
	Client Sample ID.:		TS4		
	Sample Location:		Plot 3-4 Rear		
	Sample Type:		SOIL		
	Date Sampled:		31-Aug-2022		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.99
Anthracene	M	2800	mg/kg	0.10	0.22
Fluoranthene	M	2800	mg/kg	0.10	2.0
Pyrene	M	2800	mg/kg	0.10	2.0
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.98
Chrysene	M	2800	mg/kg	0.10	0.95
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	1.3
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.43
Benzo[a]pyrene	M	2800	mg/kg	0.10	1.0
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.59
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	0.15
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.63
Total Of 16 PAH's	N	2800	mg/kg	2.0	11
Total Phenols	M	2920	mg/kg	0.10	< 0.10

TPH Chromatogram on Soil Sample: 1498708



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
22-33463	1498708	S	Plot 3-4 Rear		TS4		No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Frank O'Gara & Sons Ltd
Sorby Road
Northbank Industrial Park
Irlam
Manchester
M44 5BA
Tel : 0161 775 4587
Email: info@ogara.co.uk
VAT Reg No: 759 3686 71



INVOICE

Page 1

Style Builders Limited
Westbourne House
159 Oldham Road
Ashton-Under-Lyne
Lancashire
OL7 9AR

Invoice No	43676
Invoice Date	29/09/2022
Order No	
Account Ref	STY002

Quantity	Description	Unit Price	Net Amt	VAT %	VAT
2.0	Supply & delivery of screened soil	210.00	420.00	20.00	84.00

Site address :

82 Kingsbridge Road
Manchester
M9 5SQ

Total Net Amount	£	420.00
Carriage Net	£	0.00
Total VAT Amount	£	84.00
Invoice Total	£	504.00

Payment Terms are same day payment

BANK DETAILS

Account Name : Frank O'Gara & Sons Ltd
Sort Code : 16-00-01
Account : 20119168

All queries must be notified in writing within 7
days of receipt of this notice

APPENDIX D

CERTIFICATES OF ANALYSIS – SUBSOIL AND DELIVERY TICKETS



Final Report

Report No.: 22-34918-1
Initial Date of Issue: 20-Sep-2022
Client LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS
Contact(s): Emma Khadun
Rachel Peart
Contaminated Land
Project LKC 22 1442 Kingsbride Road,
Harpurhey

Quotation No.:		Date Received:	13-Sep-2022
Order No.:	740576	Date Instructed:	13-Sep-2022
No. of Samples:	3		
Turnaround (Wkdays):	5	Results Due:	20-Sep-2022
Date Approved:	20-Sep-2022		

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: LKC 22 1442 Kingsbride Road, Harpurhey

Client: LK Consult	Chemtest Job No.:				22-34918	22-34918	22-34918
Quotation No.:	Chemtest Sample ID.:				1505248	1505249	1505250
Order No.: 740576	Client Sample Ref.:				Sand Fill	Sand Fill	Sand Fill
	Client Sample ID.:				IS1	IS2	IS3
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				12-Sep-2022	12-Sep-2022	12-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	10	10	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand
Chromatogram (TPH)	N			N/A	See Attached	See Attached	See Attached
pH	M	2010		4.0	8.8	9.0	9.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.60	0.72	0.57
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	1.0	1.2	1.0
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Arsenic	M	2455	mg/kg	0.5	1.5	1.7	1.5
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	4.4	5.2	3.8
Copper	M	2455	mg/kg	0.50	3.1	3.8	3.2
Mercury	M	2455	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	5.3	5.7	4.5
Lead	M	2455	mg/kg	0.50	11	15	14
Selenium	M	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	6.0	6.2	4.7
Zinc	M	2455	mg/kg	0.50	58	72	57
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	< 0.40	15	< 0.40
Diesel Present	N	2670		N/A	False	False	False
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0

Results - Soil

Project: LKC 22 1442 Kingsbride Road, Harpurhey

Client: LK Consult	Chemtest Job No.:				22-34918	22-34918	22-34918
Quotation No.:	Chemtest Sample ID.:				1505248	1505249	1505250
Order No.: 740576	Client Sample Ref.:				Sand Fill	Sand Fill	Sand Fill
	Client Sample ID.:				IS1	IS2	IS3
	Sample Type:				SOIL	SOIL	SOIL
	Date Sampled:				12-Sep-2022	12-Sep-2022	12-Sep-2022
	Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD			
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10	< 10
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.80
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.11
Fluoranthene	M	2800	mg/kg	0.10	0.37	0.60	0.96
Pyrene	M	2800	mg/kg	0.10	0.30	0.43	0.69
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.26
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.16
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	3.0
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

TPH Chromatogram on Soil Sample: 1505248

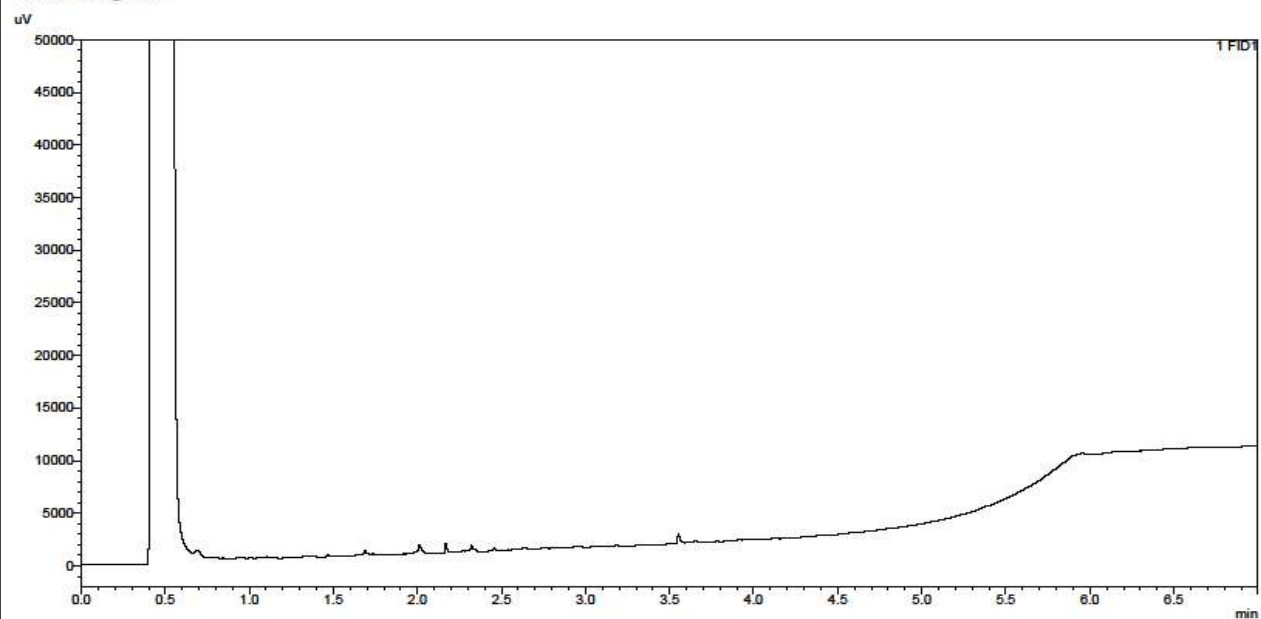
<Sample Information>

Sample Name : Front 1505248 22-34918
Data Filename : 2022-09-13_14092022_Front 1505248 22-34918_071.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 38
Date Acquired : 14/09/2022 23:55:20
Date Processed : 15/09/2022



Chemtest

<Chromatogram>



TPH Chromatogram on Soil Sample: 1505249

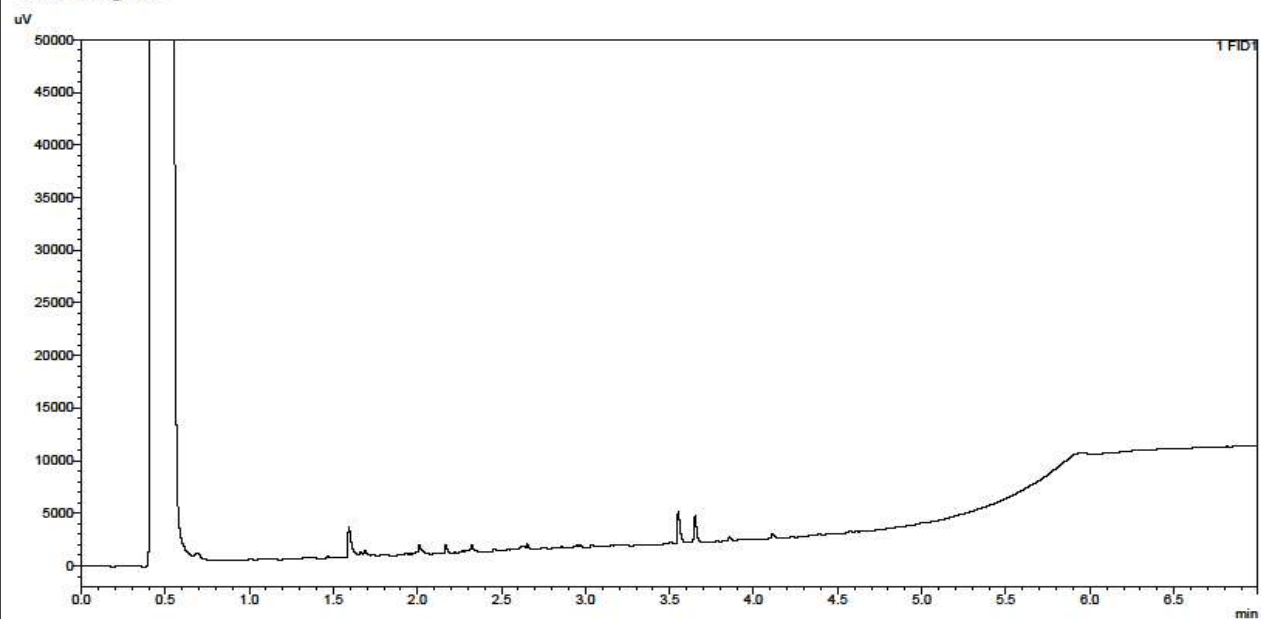
<Sample Information>

Sample Name : Front 1505249 22-34918
Data Filename : 2022-09-13_14092022_Front 1505249 22-34918_073.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 37
Date Acquired : 15/09/2022 00:07:56
Date Processed : 15/09/2022



Chemtest

<Chromatogram>



TPH Chromatogram on Soil Sample: 1505250

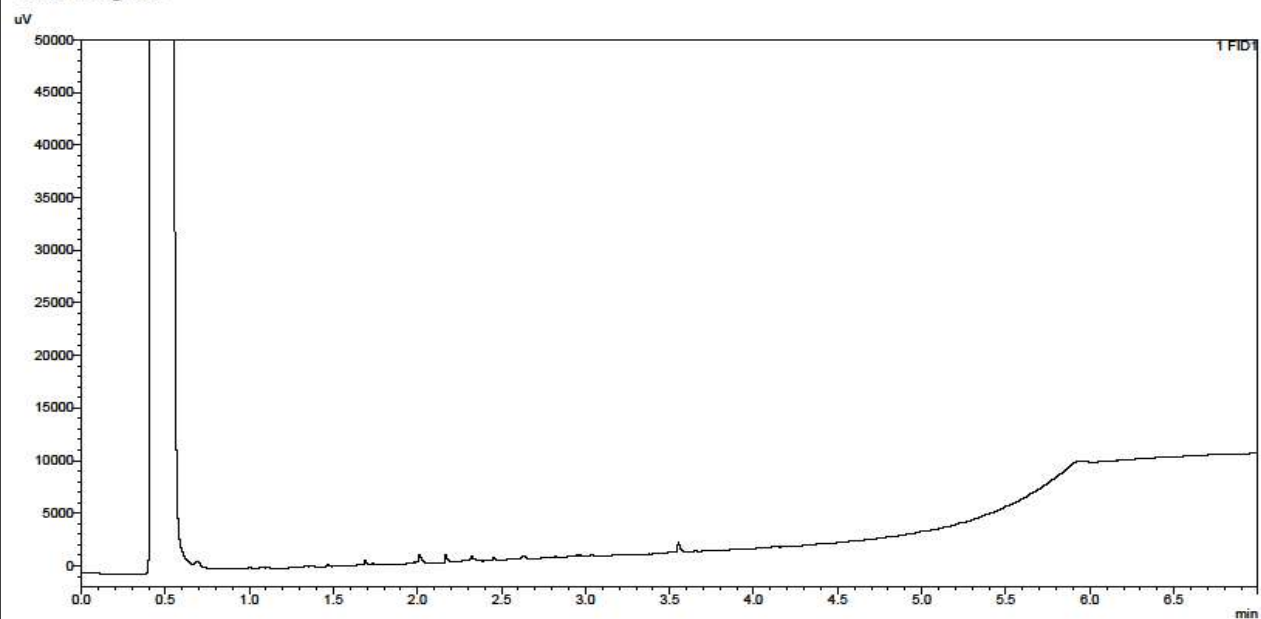
<Sample Information>

Sample Name : Front 1505250 22-34918
Data Filename : 2022-09-13_14092022_Front 1505250 22-34918_075.gcd
Method Filename : TPH 12m Fast OSv2.gcm
Sample # : 38
Date Acquired : 15/09/2022 00:20:34
Date Processed : 15/09/2022



Chemtest

<Chromatogram>



TPH Interpretation

Job	Sample	Matrix	Location	Sample Ref	Sample ID	Sample Depth (m)	Gasoline / Diesel Present	TPH Interpretation
22-34918	1505248	S		Sand Fill	IS1		No	N/A
22-34918	1505249	S		Sand Fill	IS2		No	N/A
22-34918	1505250	S		Sand Fill	IS3		No	N/A

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Duty of Care - Controlled Waste Transfer Note

Waste Carrier Licence:**Waste Management Licence:**

EPR/JB3701XB - Overman Way, Swinton, M27 8UJ

Annual Waste Transfer Note - valid for 12 months from:

Date: 08/09/2022

Job Number: 238331

Waste Producer

STYLE BUILDERS

Kingsbridge Rd, Harpurhey, Manchester, M9 5SR

Grade & EWC**SIC Code:****Order Details**

HAU ASAP

PO: x

Contact:

Time On Site 12:03 Time Off Site 12:04

Load Details:**Driver Notes**

1 x full Load of fill sand



Waste Producer Signature

Print Name fred

Signing represents total acceptance of all the Terms and Conditions

I (the customer) do hereby declare that the service contracted for as defined above has been carried out to my complete satisfaction. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. Signing represents acceptance of the Terms and Conditions.

Waste Carrier

A1 SERVICES (MANCHESTER) LTD

Mayo House, 4 Overman Way, Agecroft Commerce
Park, Salford, M27 8BQ

Waste Receiver**Registration Number:**

Vehicle Registration: PN71 HSA

Driver Name: Chris Linsdell

Registration Number:

Carrier Signature *Chris Linsdell*

Duty of Care - Controlled Waste Transfer Note

Waste Carrier Licence:**Waste Management Licence:**

EPR/JB3701XB - Overman Way, Swinton, M27 8UJ

Annual Waste Transfer Note - valid for 12 months from:

Date: 08/09/2022

Job Number: 238332

Waste Producer

STYLE BUILDERS

Kingsbridge Rd, Harpurhey, Manchester, M9 5SR

Grade & EWC**SIC Code:****Order Details**

HAU ASAP

PO: x

Contact:

Time On Site 09:44 **Time Off Site** 09:50

Load Details:**Driver Notes**

1 x full Load of fill sand



Waste Producer Signature

Print Name fred

Signing represents total acceptance of all the Terms and Conditions

I (the customer) do hereby declare that the service contracted for as defined above has been carried out to my complete satisfaction. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. Signing represents acceptance of the Terms and Conditions.

Waste Carrier

A1 SERVICES (MANCHESTER) LTD

Mayo House, 4 Overman Way, Agecroft Commerce
Park, Salford, M27 8BQ

Waste Receiver**Registration Number:**

Vehicle Registration: PN71 HSA

Driver Name: Chris Linsdell

Registration Number:

Carrier Signature *Chris Linsdell*

APPENDIX E

CAPPING LAYER VALIDATION PHOTOGRAPHS

Plot 1 Queen's Park Close



Photograph 1:
View of front of Plot 1 – No garden present,
all paving to be installed.



Photograph 2:
View of rear garden of Plot 1.



Photograph 3:
View of capping layer excavation in rear
garden of Plot 1. Natural clay at the base.



Photograph 4:
Depth measurement in rear garden of Plot 1.



Photograph 5:
Evidence of made ground removed down to natural clay to the rear of Plots 1-2 and 74.

Plot 2 Queen's Park Close



Photograph 1:
View of front garden of Plot 2.



Photograph 2:
View of capping layer excavation in front garden of Plot 2. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 2.

	Photograph 4: View of rear garden of Plot 2.
	Photograph 5: View of capping layer excavation in rear garden of Plot 2. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 2.



Photograph 7:
Evidence of made ground removed down to natural clay at the rear of Plots 1-2 and 74.

Plot 3 Queen's Park Close



Photograph 1:
View of front garden of Plot 3.



Photograph 2:
View of capping layer excavation in front garden of Plot 3. Natural clay at the base.



Photograph 3:
Depth measurement in front garden of Plot 3.

	Photograph 4: View of rear garden of Plot 3.
	Photograph 5: View of capping layer excavation in rear garden of Plot 3. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 3.



Photograph 7:
Evidence of made ground removed down to natural clay.

Plot 4 Queen's Park Close



Photograph 1:
View of front garden of Plot 4.



Photograph 2:
View of capping layer excavation in front garden of Plot 4. Natural clay at the base.



Photograph 3:
Depth measurement in front garden of Plot 4.

	Photograph 4: View of rear garden of Plot 4.
	Photograph 5: View of capping layer excavation in rear garden of Plot 4. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 4.



Photograph 7:
Evidence of made ground removed down to natural clay.

Plot 5 Queen's Park Close



Photograph 1:
View of front garden of Plot 5.



Photograph 2:
View of capping layer excavation in front garden of Plot 5. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 5.

	Photograph 4: View of rear garden of Plot 5.
	Photograph 5: View of capping layer excavation in rear garden of Plot 5. Natural clay present from 150mm bgl to 600mm bgl.
	Photograph 6: Depth measurement in rear garden of Plot 5.

Plot 6 Queen's Park Close



Photograph 1:
View of front garden of Plot 6.



Photograph 2:
View of capping layer excavation in front garden of Plot 6. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 6.

	Photograph 4: View of rear garden of Plot 6.
	Photograph 5: View of capping layer excavation in rear garden of Plot 6. Natural clay present from 150mm bgl to >700mm bgl.
	Photograph 6: Depth measurement in rear garden of Plot 6.

Plot 74 Kingsbridge Road



Photograph 1:
View of front garden of Plot 74.



Photograph 2:
View of capping layer excavation in front garden of Plot 74. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 74.

	Photograph 4: View of rear garden of Plot 74.
	Photograph 5: View of capping layer excavation in rear garden of Plot 74. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 74.



Photograph 7:
Evidence of made ground removed down to natural clay to the rear of Plots 1-2 and 74.

Plot 76 Kingsbridge Road



Photograph 1:
View of front garden of Plot 76.



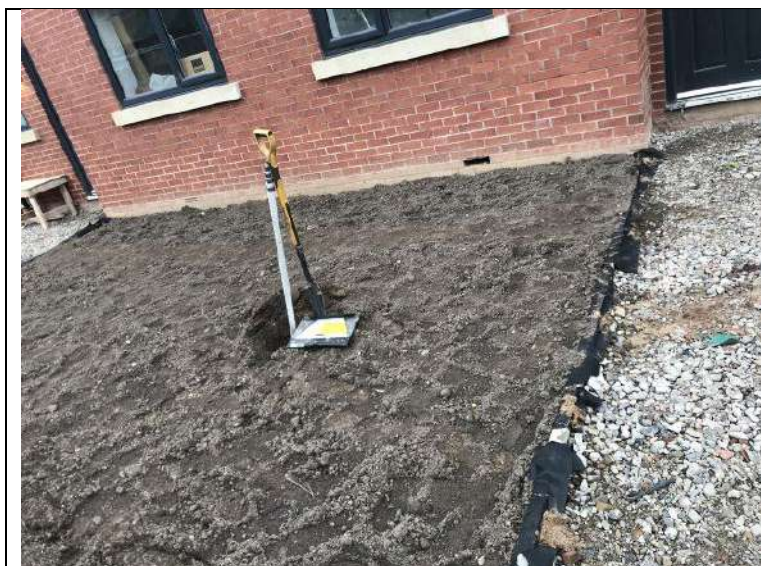
Photograph 2:
View of capping layer excavation in front garden of Plot 76. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 76.

	Photograph 4: View of rear garden of Plot 76.
	Photograph 5: View of capping layer excavation in rear garden of Plot 76. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 76.

Plot 78 Kingsbridge Road



Photograph 1:
View of front garden of Plot 78.



Photograph 2:
View of capping layer excavation in front garden of Plot 78. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 78.

	Photograph 4: View of rear garden of Plot 78.
	Photograph 5: View of capping layer excavation in rear garden of Plot 78. Natural clay at the base.
	Photograph 6: Depth measurement in rear garden of Plot 78.

Plot 80 Kingsbridge Road



Photograph 1:
View of front garden of Plot 80.



Photograph 2:
View of capping layer excavation in front garden of Plot 80. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 80.



Photograph 4:
View of rear garden of Plot 80.



Photograph 5:
View of capping layer excavation in rear garden of Plot 80. Natural clay at the base.



Photograph 6:
Depth measurement in rear garden of Plot 80.

Plot 82 Kingsbridge Road



Photograph 1:
View of front garden of Plot 82.



Photograph 2:
View of capping layer excavation in front garden of Plot 82. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 82.



Photograph 4:
View of rear garden of Plot 82.



Photograph 5:
View of capping layer excavation in rear garden of Plot 82. Geotextile membrane present at the base.



Photograph 6:
Depth measurement in rear garden of Plot 82.

Plot 84 Kingsbridge Road



Photograph 1:
View of front garden of Plot 84.



Photograph 2:
View of capping layer excavation in front garden of Plot 84. Geotextile membrane present at the base.



Photograph 3:
Depth measurement in front garden of Plot 84.

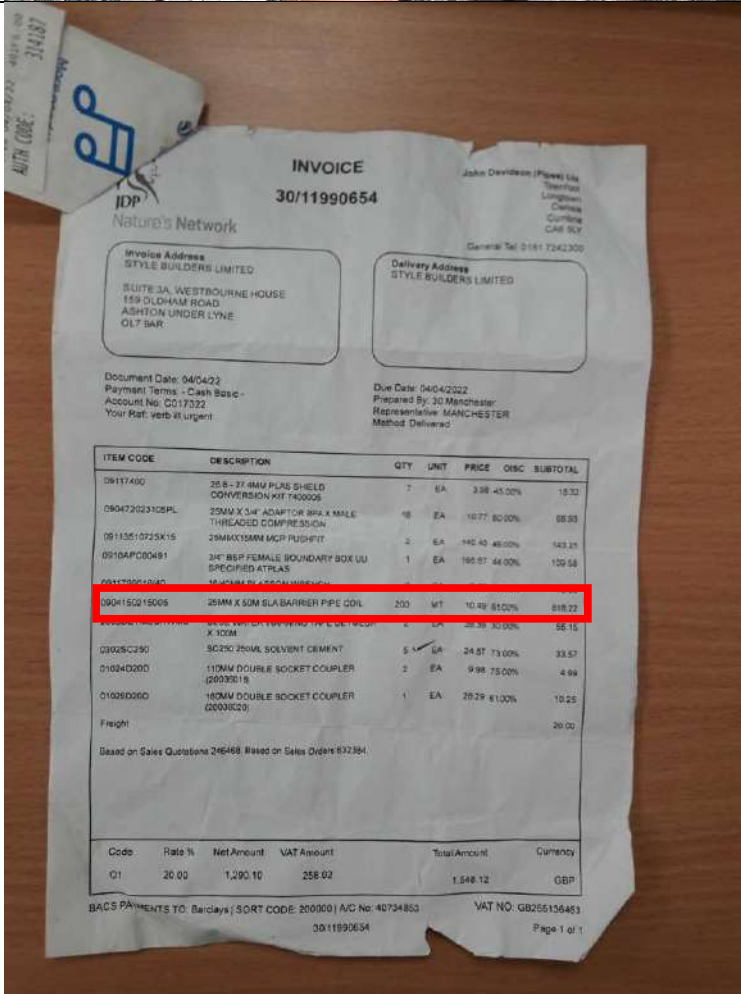
	Photograph 4: View of rear garden of Plot 84.
	Photograph 5: View of capping layer excavation in rear garden of Plot 84. Geotextile membrane present at the base.
	Photograph 6: Depth measurement in rear garden of Plot 84.

APPENDIX F

BARRIER PIPE INFORMATION



Photograph 1:
Evidence of barrier pipe installed onsite.



Photograph 2:
Evidence of barrier pipe purchase (red box).

APPENDIX G

EXAMPLE WASTE DISPOSAL TICKETS

Duty of Care - Controlled Waste Transfer Note

Waste Carrier Licence: CBDU217114

Waste Management Licence:

EPR/WE1998AB - Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Annual Waste Transfer Note - valid for 12 months from:

Date: 03/10/2022

Job Number: 124911

Waste Producer

STYLE BUILDERS

82 Kingsbridge Road, Blackley, Blackley, M9 5SQ

Grade & EWC

Soil and Stone - 170504

SIC Code:

Order Details

HAU

PO:

Contact:

NET	VAT	GROSS
250.00	50.00	300.00

Time On Site 12:11 Time Off Site 12:29

Load Details:

Driver Notes



Waste Producer Signature

Print Name matt

Signing represents total acceptance of all the Terms and Conditions

I (the customer) do hereby declare that the service contracted for as defined above has been carried out to my complete satisfaction. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. Signing represents acceptance of the Terms and Conditions.

Waste Carrier

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Waste Receiver

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Registration Number: CBDU217114

Vehicle Registration: YD17 YUC

Driver Name: Rhona Davis

Carrier Signature *Rhona Davis*

Registration Number: EPR/WE1998AB

Receiver Signature

Weighbridge Details

Our Ref: 124911

PO:

Ticket Ref: 124911

Gross: 33.140 T

Tare: 13.360 T

Gross timestamp: 04/10/2022 09:38:48

Tare timestamp: 04/10/2022 09:38:52

Vehicle Registration: YD17 YUC

Grade Weight

Soil and Stone: 19.780 T

Duty of Care - Controlled Waste Transfer Note

Waste Carrier Licence: CBDU217114

Waste Management Licence:

EPR/WE1998AB - Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Annual Waste Transfer Note - valid for 12 months from:

Date: 03/10/2022

Job Number: 124959

Waste Producer

STYLE BUILDERS

82 Kingsbridge Road, Blackley, Blackley, M9 5SQ

Grade & EWC

Soil and Stone - 170504

SIC Code:

Order Details

HAU ASAP

PO:

Contact:

NET	VAT	GROSS
250.00	50.00	300.00

Time On Site 13:32 Time Off Site 13:38

Load Details:

Driver Notes



Waste Producer Signature

Print Name matt

Signing represents total acceptance of all the Terms and Conditions

I (the customer) do hereby declare that the service contracted for as defined above has been carried out to my complete satisfaction. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. Signing represents acceptance of the Terms and Conditions.

Waste Carrier

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Waste Receiver

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Registration Number: CBDU217114

Vehicle Registration: YD17 YUC

Driver Name: Rhona Davis

Carrier Signature *Rhona Davis*

Registration Number: EPR/WE1998AB

Receiver Signature

Weighbridge Details

Our Ref: 124959

PO:

Ticket Ref: 124959

Gross: 33.540 T

Tare: 13.360 T

Gross timestamp: 04/10/2022 09:39:51

Tare timestamp: 04/10/2022 09:39:53

Vehicle Registration: YD17 YUC

Grade Weight

Soil and Stone: 20.180 T

Duty of Care - Controlled Waste Transfer Note

Waste Carrier Licence: CBDU217114

Waste Management Licence:

EPR/WE1998AB - Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Annual Waste Transfer Note - valid for 12 months from:

Date: 03/10/2022

Job Number: 124910

Waste Producer

STYLE BUILDERS

82 Kingsbridge Road, Blackley, Blackley, M9 5SQ

Grade & EWC

Soil and Stone - 170504

SIC Code:

Order Details

HAU ASAP

PO:

Contact:

NET	VAT	GROSS
250.00	50.00	300.00

Time On Site 13:18 Time Off Site 14:18

Load Details:

Driver Notes



Waste Producer Signature

Print Name matt

Signing represents total acceptance of all the Terms and Conditions

I (the customer) do hereby declare that the service contracted for as defined above has been carried out to my complete satisfaction. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011. Signing represents acceptance of the Terms and Conditions.

Waste Carrier

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Waste Receiver

AMP SKIP HIRE

Aspire House, 14-16 Outrum Road, Dukinfield, SK16 4XE

Registration Number: CBDU217114

Vehicle Registration: YD17 YUA

Driver Name: Lance Bowman

Carrier Signature *Lance Bowman*

Registration Number: EPR/WE1998AB

Receiver Signature

Weighbridge Details

Our Ref: 124910

PO:

Ticket Ref: 124910

Gross: 33.120 T

Tare: 13.360 T

Gross timestamp: 04/10/2022 09:38:30

Tare timestamp: 04/10/2022 09:38:34

Vehicle Registration: YD17 YUA

Grade Weight

Soil and Stone: 19.760 T

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