

Ashton STOR
Tower Mill, Ashton Old Road, Openshaw, M11 1AA

Report for Planning Discharge

Remediation Report

The following report details work carried out both Pre-Construction and during construction with respect to the remediation strategy 2018Oct_ASH1867b_RS offered to planning compiled by T & P Regeneration Ltd, this document outlines the process to be adopted by GFC in dealing with the existing ground at the Ashton Project and the subsequent works carried out on site

In summary all surplus made ground was tested for contamination prior to being disposed of, off site.

During the design process it was realised that the existing made ground was unsuitable to be reused on site due to the loadings that would impact the Soils. It was therefore determined that the made ground would be removed from site and replaced with a granular 6F5 material. All made ground removed from site was sent to a recycling transfer station to be recycled into useable products.

Section 1 - Remediation Strategy Document Ref: - JJ0297/JAE/001

Section 2 - Site Works Report

Section 3 - Testing Results

Section 4 – Waste Carriers License and Tip Registration Details

Section 1

Remediation Strategy Document Ref: - JJ0297/JAE/001

Ashton STOR
Tower Mill, Ashton Old Road, Openshaw, M11 1AA
Remediation Strategy
Document Ref: - JJ0297/JAE/001

Following the Site Investigation on the above site, and subsequent Remediation strategy 2018Oct_ASH1867b_RS offered to Planning compiled by T & P Regeneration Ltd, and approved under planning condition 4, this document will outline the Process to be adopted by GFC in dealing with the Existing Ground at the Ashton Project

Design

The Proposed Site Levels have been determined with the respect to the existing levels of the main access to the site, the Remediation Strategy outlines the need to, where possible, reduce the amount of Existing ground to be removed off site, however the loadings that will be imposed by the Construction and the need for Finished Levels to remain almost as existing, there is little opportunity to leave material in place.

The Si For the site also identifies that the area of the Generators is not suitable for the loadings to be applied and this area is required to be removed within a Range of 600mm – 1.8m and replaced with an Imported Granular material.

Construction

On Commencement of the Construction phase, the Existing Containers and Tanks on site will be removed to a Licensed facility. The Vegetation/ Topsoil will be scraped and Stockpiled to one side.

This material will be removed off site as Organic Waste

The area identified at SS01 will be marked and the material removed 4m x 4m x 0.65 Deep and removed off site as Hazardous waste.

Further Testing will be carried out to the Made Ground within the Bund to the South of the site and in the Proposed area of Excavation to the Generator areas. Once the Classification is Known the material will be Excavated and removed to the appropriate licensed Facility

Following testing the Waste Management Plan will be amended to include the disposal of Surplus Soils contaminated with asbestos if required.

A drawing has been produced GFC-JAE-297-001 Appendix A, identifying areas that will be excavated in Made Ground.

During Construction, while carrying out excavation works, the area will be monitored for further Evidence of Contamination. All work areas to be continually dampened down, and all materials will be segregated with stockpiles with potential contamination covered to prevent airborne particles being released. This material is to be removed off site as soon as conveniently possible all-in accordance with the site-specific Risk Assessment.

All construction personnel involved with direct contact with the soils at the site are to use appropriate PPE equipment (i.e. boots, gloves and overalls together with hygiene facilities in accordance with general health and safety guidelines. Appropriate consideration will be given to health and safety procedures for personnel working in contaminated soils. This will include consideration of dust suppression,

All Works will be carried out in accordance with the following Regulations

- Environmental Protection Act (1990)
- Contaminated Land (England) Regs (2000)
- Environment Agency Publication CR11 Model Procedures for the Management of Contaminated Land (2004)
- Contaminated Land: Applications in Real Environments (2009)
- Control of Asbestos Regs (2012)
- CAR-SOIL (CAR 2012) - Interpretation for Managing and Working with Asbestos in Soil and Construction and Demolition Materials: Industry guidance
- Construction (Design and Management) Regs 2015
- CL:AIRE Decision Tool for the Categorization of Work Activities Involving Asbestos in Soil (2017)

Appendix A

GFC-JAE-297-001- Excavations which may impact Contaminated Soils

required in this area
fine waste Classification

Hot Spot to be Removed as Hazardous Material
Further Testing once Initial 4 x 4 x 0.65 is removed

BUILDING

Existing Made Ground Bund to be removed
Non Haz Material

Drawing Nr GFC-JAE-297-001- Excavations which may impact Contaminated Soils

Hot Spot to be Removed as Hazardous Material
Further Testing once Initial 4 x 4 x 0.65 is removed

Existing Made Ground Bund to be removed
Non Haz Material

BUILDING

Drawing Nr GFC-JAE-297-001- Excavations which may impact Contaminated Soils

Section 2

Site Works Report

Works began on site Monday 19th June 2023; the site was cleared of general rubbish and fly tipped material to mixed waste skips.

The vegetation was then cleared and stockpiled with the large vegetation and topsoil type material stockpiled separately. The large vegetation was removed from site using green waste skips and topsoil was sent to a recycling facility for screening.



Following the site Clearance, Trial Holes were carried out in order for samples to be sent to the Labs for Testing to determine the waste criteria of the Made Ground on Site. With the area designated SS01 in the Remediation strategy report, the Trial pits were located 1.0m away from the assumed Perimeter of the contaminated area (See Appendix 1 for Locations)

The results from the trial pits designated the material on site to be stable non-reactive hazardous Waste for Disposal purposes, Results are in Section 3. Therefore the material at the Location SS01 designated hazardous material was limited to the area between the Trial pits therefore an area 6.00m x 6.00m x 0.5m was removed as hazardous waste to an appropriate Facility (Details in Section 4)

The material in area B which was an existing mound of made ground was removed off site First in order to level the site to a Plateau.

Once the site was at a general reduced level the main area of Bulk Excavation was in area C , which is the area where the Main Gen Sets are to be located. The design required the removal of all made ground and replaced with 6F5 material.

During excavation a number of concrete and metal structures where located where they where separated and disposed of as clean concrete or scrap metal.





Summary

Following the Soils Testing it was determined the Hazardous Material identified in the SI report ref SSO1 was confined to the Hotspot. All other material Made Ground has been removed with a Non Hazardous Classification.

Long term monitoring and maintenance plan

Following the removal of the contamination hotspot, and surplus made ground of which the results of testing classified the material as stable non-hazardous material it is considered that the remediation strategy of the site has been effective, and there will be no requirement for a longer term monitoring and maintenance programme

Appendix 1

Trial Pit Locations

Laboratory Report	DNR/132217	Contract Sample No	DN5465/3
Report Date	08/07/2023	Clients Reference	DN5465/3
Green Frog Connect Ltd The Hive, 6 Beaufighter Road, Weston-Super-Mare, BS24 8EE Tower Mill, Ashton Old Road, Openshaw, M11 1AA		Material Description	Brown Stoney Soil
		Source	Site Won
		Supplier	Site Won
		Date Sampled	21/062023
		Date Received	21/06/2023
		Date Completed	05/07/2023
		Sample Location	Sample



Construction Testing Solutions

Bootham Lane Industrial Estate
Dunscroft | Doncaster | DN7 4JU
T | (01302) 352652
E | enquiries@constructiontesting.co.uk
W | www.constructiontesting.co.uk

WAC, ENV1, Asbestos ID & Interp Report

Please find enclosed test certificate (L21/04403/CTS-23-36406) supplied by our approved Sub-contract Laboratory, CTS Group

Authorised Signatory



H Davison - Administration Manager



7 - 11 Harding Street
Leicester
LE1 4DH

Construction Testing Solutions
Bootham Lane Industrial Estate
Duncroft
Doncaster
DN7 4JU

Analytical Test Report: L23/04403/CTS - 23-36406

Your Project Reference:	Green Frog Connect Ltd		
Your Order Number:	27126	Samples Received / Instructed:	23/06/2023 / 23/06/2023
Report Issue Number:	1	Sample Tested:	23/06 to 05/07/2023
Samples Analysed:	3 soil samples	Report issued:	08/07/2023

Signed

James Gane
Analytical Services Manager
CTS Group

Notes:

General

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

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with CTS method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

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

Asbestos

Please note: Where further analysis is required samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and these results are not covered by our accreditation

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

WAC Testing

Samples were leached in accordance with BS EN 12457-3: 2002.

Eluate Results are reported as the cumulative release at L/S 10 from eluates of L/S 2 and L/S 8. These results have been calculated in accordance with BS EN 12457-3:2002.

Comparative values are taken from the Council Decision Annex - CRITERIA AND PROCEDURES FOR THE ACCEPTANCE OF WASTE AT LANDFILLS, (2003/33/EC).

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue: 26.07.23

Issued by: J. Gane

Issue No: 4

Rev No: 2



7 - 11 Harding Street
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LE1 4DH

L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analytical Test Results - Soil

Lab Reference			309964	309965	309966
Client Sample ID			DN5465/3 D	DN5465/3 E	DN5465/3 F
Client Sample Location			TPD	TPE	TPF
Client Sample Type			-	-	-
Client Sample Number			-	-	-
Depth - Top (m)			-	-	-
Depth - Bottom (m)			-	-	-
Date of Sampling			23/06/2023	23/06/2023	23/06/2023
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Sand
Determinant	Units	Accreditation			
Arsenic	(mg/kg)	MCERTS	22	19	23
Boron (w/s)	(mg/kg)	u	5.8	5.6	5.3
Cadmium	(mg/kg)	MCERTS	1.8	1.8	1.6
Chromium (Total)	(mg/kg)	UKAS	53	53	52
Copper	(mg/kg)	MCERTS	111	103	120
Lead	(mg/kg)	MCERTS	102	101	111
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	19	18	19
Selenium	(mg/kg)	u	< 8.0	< 8.0	< 8.0
Zinc	(mg/kg)	MCERTS	355	286	373
Total Phenols	(mg/kg)	MCERTS	< 1.0	< 1.0	< 1.0
Cyanide (Total)	(mg/kg)	MCERTS	1.1	< 1.0	< 1.0
Cyanide (Free)	(mg/kg)	u	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	< 1.0	< 1.0
Sulphate (Acid Soluble)	(%)	u	0.53	1.02	0.64
pH	pH Units	MCERTS	9.6	8.7	9.0
Sulphate (Water soluble as SO ₄)	(mg/l)	u	1400	1660	940
Sulphide	(mg/kg)	u	540	620	490
Sulphur (Total)	(%)	UKAS	0.56	0.71	0.55
Thiocyanate	(mg/kg)	u	< 5.0	< 5.0	< 5.0
Acenaphthene	(mg/kg)	MCERTS	0.35	< 0.20	0.36
Acenaphthylene	(mg/kg)	UKAS	0.79	0.35	0.66
Anthracene	(mg/kg)	UKAS	3.9	1.3	3.0
Benzo (a) anthracene	(mg/kg)	MCERTS	12	7.0	11
Benzo (a) pyrene	(mg/kg)	MCERTS	12	7.4	11.5
Benzo (b) fluoranthene	(mg/kg)	MCERTS	16	10.7	13.2
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	7.0	3.2	9.4
Benzo (k) fluoranthene	(mg/kg)	MCERTS	6.0	5.0	7.8
Chrysene	(mg/kg)	MCERTS	15.5	9.8	11
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	2.3	0.79	1.5
Fluoranthene	(mg/kg)	MCERTS	29	11	22
Fluorene	(mg/kg)	MCERTS	0.51	0.25	0.50
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	MCERTS	10	3.9	6.5
Naphthalene	(mg/kg)	MCERTS	< 0.20	0.48	< 0.20
Phenanthrene	(mg/kg)	MCERTS	8.6	5.6	5.1
Pyrene	(mg/kg)	MCERTS	14	13.6	31
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	120	86	125
Gasoline Range Organics (>C ₈ to C ₁₀) [EH_1D_Total]	(mg/kg)	MCERTS	< 50.0	< 5.0	< 5.0
Diesel Range Organics (>C ₁₀ to C ₂₁) [EH_1D_Total]	(mg/kg)	MCERTS	110	178	168
Mineral Range Organics (>C ₂₁ to C ₄₀) [EH_1D_Total]	(mg/kg)	MCERTS	1600	1800	2100
Total TPH (>C ₈ to C ₄₀) [EH_1D_Total]	(mg/kg)	MCERTS	2100	1900	1600



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analytical Test Results - Soil

Lab Reference			309964	309965	309966
Client Sample ID			DN5465/3 D	DN5465/3 E	DN5465/3 F
Client Sample Location			TPD	TPE	TPF
Client Sample Type			-	-	-
Client Sample Number			-	-	-
Depth - Top (m)			-	-	-
Depth - Bottom (m)			-	-	-
Date of Sampling			23/06/2023	23/06/2023	23/06/2023
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Sand
Determinant	Units	Accreditation			
SOM (via TOC)	(%)	UKAS	3.4	4.5	5.5
Asbestos	-	UKAS	No asbestos detected	No asbestos detected	No asbestos detected



4161



7 - 11 Harding Street
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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference	309964
Client Sample ID	DN5465/3 D
Client Sample Location	TPD
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	23/06/2023
Time of Sampling	-
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete
Sample Matrix	Sand
Moisture Content (%)	6.3
Stone content (%)	68

Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	2.3	3.0	5.0	6.0
Loss on Ignition	%	UKAS	4.8	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.07	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.380	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	2234	500	-	-
PAH	mg/kg	u	195	100	-	-
pH	units	MCERTS	9.1	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	0.13	0.50	2	25
Barium	mg/kg	u	0.24	20	100	300
Cadmium	mg/kg	u	< 0.02	0.04	1	5
Chromium (total)	mg/kg	u	< 0.02	0.5	10	70
Copper	mg/kg	u	< 0.30	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.19	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	0.02	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	15	800	15000	25000
Fluoride	mg/kg	u	5	10	150	500
Sulphate (as SO ₄)	mg/kg	u	1100	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1700	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	27.0	500	800	1000



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference	309965
Client Sample ID	DN5465/3 E
Client Sample Location	TPE
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	23/06/2023
Time of Sampling	-
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete
Sample Matrix	Sand
Moisture Content (%)	6.1
Stone content (%)	59

Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	2.7	3.0	5.0	6.0
Loss on Ignition	%	UKAS	7.0	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.09	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.480	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	1780	500	-	-
PAH	mg/kg	u	58	100	-	-
pH	units	MCERTS	8.6	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.13	0.50	2	25
Barium	mg/kg	u	0.24	20	100	300
Cadmium	mg/kg	u	< 0.02	0.04	1	5
Chromium (total)	mg/kg	u	< 0.12	0.5	10	70
Copper	mg/kg	u	< 0.15	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.04	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.11	4	50	200
Chloride	mg/kg	u	8	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	3900	1000	20000	50000
Total Dissolved Solids	mg/kg	u	4500	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	27.0	500	800	1000



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Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference	309966
Client Sample ID	DN5465/3 F
Client Sample Location	TPF
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	23/06/2023
Time of Sampling	-
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete
Sample Matrix	Sand
Moisture Content (%)	6.9
Stone content (%)	55

Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	3.2	3.0	5.0	6.0
Loss on Ignition	%	UKAS	6.9	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.32	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.25	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	2340	500	-	-
PAH	mg/kg	u	160	100	-	-
pH	units	MCERTS	8.0	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	0.07	0.50	2	25
Barium	mg/kg	u	0.34	20	100	300
Cadmium	mg/kg	u	< 0.02	0.04	1	5
Chromium (total)	mg/kg	u	< 0.05	0.5	10	70
Copper	mg/kg	u	< 0.22	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.21	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	0.02	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	8	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	890	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1890	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	35.0	500	800	1000



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
309964	DN5465/3 D	TPD	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.3	68	21
309965	DN5465/3 E	TPE	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.1	59	30
309966	DN5465/3 F	TPF	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.9	55	25



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Project Reference - Green Frog Connect Ltd

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
309964	DN5465/3 D	TPD	-	-	VPH/BTEX - Sample taken from container with headspace.
309965	DN5465/3 E	TPE	-	-	VPH/BTEX - Sample taken from container with headspace.
309965	DN5465/3 F	TPF	-	-	VPH/BTEX - Sample taken from container with headspace.



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Project Reference - Green Frog Connect Ltd

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TOCS	MS - CL - TOC Eltra	Air Dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soils
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Determination of VPH in soils via Headspace-GC-MS
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Determination of Water soluble Boron in soils via ICP
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
WACMETALS	MS - CL - ICP - Metals in Waters (WAC)	As received	BSEN:12457 Leaching	Determination of metals in a leachate as part of a WAC test via ICP
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
SULPHIDES	MS - CL - Sulphide in Soils	As received	Passing 10mm test sieve	Determination of sulphide in soil via titration
TDSL	MS - CL - Conductivity in Water	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates (by calculation)
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Determination of total phenols in soil using Skalar segmented flow analyser
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis



4161



7 - 11 Harding Street
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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
ENLEACHP2	BS EN 12457-3	As Received	-	Leaching in accordance with BSEN 12457-3
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	Testing was in accordance with BS 1377: Part 3: 2018 + A1 :2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)



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Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Date of sampling to receipt insufficient to allow analysis to be completed without deviation, Please note this is only a deviation if 'X' is also recorded against the sample

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
309964	DN5465/3 D	TPD	-	-	MS - CL - VPH	TRX
309964	DN5465/3 D	TPD	-	-	MS - CL - pH in Soils	RX
309964	DN5465/3 D	TPD	-	-	MS - CL - pH in Soils (WAC)	RX
309965	DN5465/3 E	TPE	-	-	MS - CL - VPH	TRX
309965	DN5465/3 E	TPE	-	-	MS - CL - pH in Soils	RX
309965	DN5465/3 E	TPE	-	-	MS - CL - pH in Soils (WAC)	RX
309966	DN5465/3 F	TPF	-	-	MS - CL - VPH	TRX
309966	DN5465/3 F	TPF	-	-	MS - CL - pH in Soils	RX
309966	DN5465/3 F	TPF	-	-	MS - CL - pH in Soils (WAC)	RX



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HWOL TPH Acronym Index

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumlative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Laboratory Report	DNR/132217	Contract Sample No	DN5465/3
Report Date	08/07/2023	Clients Reference	DN5465/3
Green Frog Connect Ltd The Hive, 6 Beaufighter Road, Weston-Super-Mare, BS24 8EE Tower Mill, Ashton Old Road, Openshaw, M11 1AA		Material Description	Brown Stoney Soil
		Source	Site Won
		Supplier	Site Won
		Date Sampled	21/062023
		Date Received	21/06/2023
		Date Completed	05/07/2023
		Sample Location	Sample



Construction Testing Solutions

Bootham Lane Industrial Estate
Dunscroft | Doncaster | DN7 4JU
T | (01302) 352652
E | enquiries@constructiontesting.co.uk
W | www.constructiontesting.co.uk

WAC, ENV1, Asbestos ID & Interp Report

Please find enclosed test certificate (L21/04403/CTS-23-36406) supplied by our approved Sub-contract Laboratory, CTS Group

Authorised Signatory



H Davison - Administration Manager



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Construction Testing Solutions
Bootham Lane Industrial Estate
Duncroft
Doncaster
DN7 4JU

Analytical Test Report: L23/04403/CTS - 23-36406

Your Project Reference:	Green Frog Connect Ltd		
Your Order Number:	27126	Samples Received / Instructed:	21/06/2023 / 21/06/2023
Report Issue Number:	1	Sample Tested:	21/06 to 05/07/2023
Samples Analysed:	3 soil samples	Report issued:	08/07/2023

Signed

James Gane
Analytical Services Manager
CTS Group

Notes:

General

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

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with CTS method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

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

Asbestos

Please note: Where further analysis is required samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and these results are not covered by our accreditation

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

WAC Testing

Samples were leached in accordance with BS EN 12457-3: 2002.

Eluate Results are reported as the cumulative release at L/S 10 from eluates of L/S 2 and L/S 8. These results have been calculated in accordance with BS EN 12457-3:2002.

Comparative values are taken from the Council Decision Annex - CRITERIA AND PROCEDURES FOR THE ACCEPTANCE OF WASTE AT LANDFILLS, (2003/33/EC).

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of issue: 26.07.23

Issued by: J. Gane

Issue No: 4

Rev No: 2



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analytical Test Results - Soil

Lab Reference			309961	309962	309963
Client Sample ID			DN5465/3 A	DN5465/3 B	DN5465/3 C
Client Sample Location			TPA	TPB	TPC
Client Sample Type			-	-	-
Client Sample Number			-	-	-
Depth - Top (m)			-	-	-
Depth - Bottom (m)			-	-	-
Date of Sampling			21/06/2023	21/06/2023	21/06/2023
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Sand
Determinant	Units	Accreditation			
Arsenic	(mg/kg)	MCERTS	25	19	26
Boron (w/s)	(mg/kg)	u	5.9	5.3	5.0
Cadmium	(mg/kg)	MCERTS	1.8	1.7	1.5
Chromium (Total)	(mg/kg)	UKAS	53	52	50
Copper	(mg/kg)	MCERTS	140	66	130
Lead	(mg/kg)	MCERTS	110	99	110
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	19	18	19
Selenium	(mg/kg)	u	< 8.0	< 8.0	< 8.0
Zinc	(mg/kg)	MCERTS	390	260	370
Total Phenols	(mg/kg)	MCERTS	< 1.0	< 1.0	< 1.0
Cyanide (Total)	(mg/kg)	MCERTS	1.1	< 1.0	< 1.0
Cyanide (Free)	(mg/kg)	u	< 1.0	< 1.0	< 1.0
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	< 1.0	< 1.0
Sulphate (Acid Soluble)	(%)	u	0.50	1.45	0.43
pH	pH Units	MCERTS	9.6	8.7	9.0
Sulphate (Water soluble as SO ₄)	(mg/l)	u	1100	1700	640
Sulphide	(mg/kg)	u	620	480	570
Sulphur (Total)	(%)	UKAS	0.43	0.77	0.33
Thiocyanate	(mg/kg)	u	< 5.0	< 5.0	< 5.0
Acenaphthene	(mg/kg)	MCERTS	0.38	< 0.20	0.31
Acenaphthylene	(mg/kg)	UKAS	0.79	0.35	0.66
Anthracene	(mg/kg)	UKAS	3.9	1.3	3.0
Benzo (a) anthracene	(mg/kg)	MCERTS	19	7.3	15
Benzo (a) pyrene	(mg/kg)	MCERTS	16	6.7	13
Benzo (b) fluoranthene	(mg/kg)	MCERTS	22	8.7	18
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	9.0	3.9	7.4
Benzo (k) fluoranthene	(mg/kg)	MCERTS	9.0	3.4	7.2
Chrysene	(mg/kg)	MCERTS	17	6.8	14
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	2.3	0.79	1.5
Fluoranthene	(mg/kg)	MCERTS	29	11	22
Fluorene	(mg/kg)	MCERTS	0.51	0.25	0.50
Indeno (1, 2, 3, -cd) pyrene	(mg/kg)	MCERTS	10	3.9	6.5
Naphthalene	(mg/kg)	MCERTS	< 0.20	0.51	< 0.20
Phenanthrene	(mg/kg)	MCERTS	6.6	2.6	5.5
Pyrene	(mg/kg)	MCERTS	26	9.8	20
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	170	67	130
Gasoline Range Organics (>C ₈ to C ₁₀) [EH_1D_Total]	(mg/kg)	MCERTS	< 50.0	< 5.0	< 5.0
Diesel Range Organics (>C ₁₀ to C ₂₁) [EH_1D_Total]	(mg/kg)	MCERTS	210	130	180
Mineral Range Organics (>C ₂₁ to C ₄₀) [EH_1D_Total]	(mg/kg)	MCERTS	2200	1600	1800
Total TPH (>C ₈ to C ₄₀) [EH_1D_Total]	(mg/kg)	MCERTS	2400	1700	1900



L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analytical Test Results - Soil

Lab Reference			309961	309962	309963
Client Sample ID			DN5465/3 A	DN5465/3 B	DN5465/3 C
Client Sample Location			TPA	TPB	TPC
Client Sample Type			-	-	-
Client Sample Number			-	-	-
Depth - Top (m)			-	-	-
Depth - Bottom (m)			-	-	-
Date of Sampling			21/06/2023	21/06/2023	21/06/2023
Time of Sampling			-	-	-
Sample Matrix			Sand	Sand	Sand
Determinant	Units	Accreditation			
SOM (via TOC)	(%)	UKAS	3.7	4.8	5.3
Asbestos	-	UKAS	No asbestos detected	No asbestos detected	No asbestos detected



4161



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference	309961
Client Sample ID	DN5465/3 A
Client Sample Location	TPA
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	21/06/2023
Time of Sampling	-
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete
Sample Matrix	Sand
Moisture Content (%)	6.1
Stone content (%)	66

Determined Result

Inert Waste Landfill

Stable non reactive
hazardous waste in
a non hazardous
landfill

Hazardous Waste
Landfill

Solid Analysis

Total Organic Carbon	%	MCERTS	2.1	3.0	5.0	6.0
Loss on Ignition	%	UKAS	5.2	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.280	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	2400	500	-	-
PAH	mg/kg	u	180	100	-	-
pH	units	MCERTS	9.6	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	0.03	0.50	2	25
Barium	mg/kg	u	0.16	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.19	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	0.02	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	15	800	15000	25000
Fluoride	mg/kg	u	5	10	150	500
Sulphate (as SO ₄)	mg/kg	u	1200	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1800	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	27.0	500	800	1000



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference	309962
Client Sample ID	DN5465/3 B
Client Sample Location	TPB
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	21/06/2023
Time of Sampling	-
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete
Sample Matrix	Sand
Moisture Content (%)	6.3
Stone content (%)	53

Determined Result

Inert Waste Landfill

Stable non reactive
hazardous waste in
a non hazardous
landfill

Hazardous Waste
Landfill

Solid Analysis

Total Organic Carbon	%	MCERTS	2.8	3.0	5.0	6.0
Loss on Ignition	%	UKAS	6.0	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.280	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	1730	500	-	-
PAH	mg/kg	u	68	100	-	-
pH	units	MCERTS	8.7	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	0.19	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.04	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	8	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	4200	1000	20000	50000
Total Dissolved Solids	mg/kg	u	4900	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	23.0	500	800	1000



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Project Reference - Green Frog Connect Ltd

Certificate Of Analysis - WAC Suite

Lab Reference		309963
Client Sample ID	DN5465/3 C	
Client Sample Location	TPC	
Client Sample Type	-	
Client Sample Number	-	
Depth - Top (m)	-	
Depth - Bottom (m)	-	
Date of Sampling	21/06/2023	
Time of Sampling	-	
Sample Description	Made Ground- brown gravelly silty sand with frequent rootlets concrete	
Sample Matrix	Sand	
Moisture Content (%)	6.4	
Stone content (%)	45	

Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	3.1	3.0	5.0	6.0
Loss on Ignition	%	UKAS	6.5	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.280	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	MCERTS	1940	500	-	-
PAH	mg/kg	u	140	100	-	-
pH	units	MCERTS	9.0	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	0.05	0.50	2	25
Barium	mg/kg	u	0.14	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.11	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	0.02	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	8	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	800	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1400	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	29.0	500	800	1000



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
309961	DN5465/3 A	TPA	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.1	66	21
309962	DN5465/3 B	TPB	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.3	53	32
309963	DN5465/3 C	TPC	-	-	Made Ground- brown gravelly silty sand with frequent rootlets concrete	6.4	45	25



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
309961	DN5465/3 A	TPA	-	-	VPH/BTEX - Sample taken from container with headspace.
309962	DN5465/3 B	TPB	-	-	VPH/BTEX - Sample taken from container with headspace.
309963	DN5465/3 C	TPC	-	-	VPH/BTEX - Sample taken from container with headspace.



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L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TOCS	MS - CL - TOC Eltra	Air Dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soils
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Determination of VPH in soils via Headspace-GC-MS
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Determination of Water soluble Boron in soils via ICP
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
WACMETALS	MS - CL - ICP - Metals in Waters (WAC)	As received	BSEN:12457 Leaching	Determination of metals in a leachate as part of a WAC test via ICP
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
SULPHIDES	MS - CL - Sulphide in Soils	As received	Passing 10mm test sieve	Determination of sulphide in soil via titration
TDSL	MS - CL - Conductivity in Water	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates (by calculation)
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Determination of total phenols in soil using Skalar segmented flow analyser
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis



4161



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Project Reference - Green Frog Connect Ltd

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
ENLEACHP2	BS EN 12457-3	As Received	-	Leaching in accordance with BSEN 12457-3
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	Testing was in accordance with BS 1377: Part 3: 2018 + A1 :2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)



4161



7 - 11 Harding Street
Leicester
LE1 4DH

L23/04403/CTS - 23-36406

Project Reference - Green Frog Connect Ltd

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Date of sampling to receipt insufficient to allow analysis to be completed without deviation, Please note this is only a deviation if 'X' is also recorded against the sample

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
309961	DN5465/3 A	TPA	-	-	MS - CL - VPH	TRX
309961	DN5465/3 A	TPA	-	-	MS - CL - pH in Soils	RX
309961	DN5465/3 A	TPA	-	-	MS - CL - pH in Soils (WAC)	RX
309962	DN5465/3 B	TPB	-	-	MS - CL - VPH	TRX
309962	DN5465/3 B	TPB	-	-	MS - CL - pH in Soils	RX
309962	DN5465/3 B	TPB	-	-	MS - CL - pH in Soils (WAC)	RX
309963	DN5465/3 C	TPC	-	-	MS - CL - VPH	TRX
309963	DN5465/3 C	TPC	-	-	MS - CL - pH in Soils	RX
309963	DN5465/3 C	TPC	-	-	MS - CL - pH in Soils (WAC)	RX



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Project Reference - Green Frog Connect Ltd

HWOL TPH Acronym Index

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumlative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Section 3

Testing Results

Notice of transfer with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

A1 Services (Manchester) Limited

A1 Waste Transfer Station
Overman Way
Agecroft Commerce Park
Salford
Lancashire
M27 8UJ

Transfer application number

EPR/JB3701XB/T001

Permit number

EPR/JB3701XB

A1 Waste Transfer Station

Permit number EPR/JB3701XB

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the transfer of an environmental permit to a new operator (the transferee).

The permit is being transferred in full from Manchester Waste Recycling Limited to A1 Services (Manchester) Limited.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Permit determined EPR/AB3939RT	27/01/12	Permit issued to A1 Services (Manchester) Limited.
Transfer determined EPR/MB3034AP (EPR/AB3939RT)	15/11/12	Transfer of permit in full to Manchester Waste Recycling Limited.
Variation determined EPR/MB3034AP	06/03/17	Varied to add one waste code to the permit.
Partial Transfer and Environment Agency variation determined EPR/MB3034AP	29/03/17	Partial transfer of permit and Environment Agency initiated variation of permit complete to add FPP condition.
Part surrender determined EPR/MB3034AP	06/08/20	Part surrender complete.
Variation determined EPR/MB3034AP	18/12/20	Varied to add accepted waste codes to permit.
Application EPR/JB3701XB/T001 (full transfer of permit EPR/MB3034AP)	Duly made 29/10/20	Application to transfer the permit in full to A1 Services (Manchester) Limited.
Transfer determined EPR/JB3701XB	22/12/20	Full transfer of permit complete.

End of introductory note

Notice of transfer

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 21 of the Environmental Permitting (England and Wales) Regulations 2016 transfers

Permit number

EPR/MB3034AP

to

A1 Services (Manchester) Limited (“the operator”)

whose registered office is

**Mayo House
4 Overman Way
Manchester
M27 8BQ**

company registration number 04962016

to operate a regulated facility at

**A1 Waste Transfer Station
Overman Way
Agecroft Commerce Park
Salford
Lancashire
M27 8UJ**

from Manchester Waste Recycling Limited

The notice shall take effect from 22/12/2020

**The number of the new permit granted to A1 Services (Manchester) Limited is
EPR/JB3701XB**

Name	Date
Helen Marston	22/12/2020

Authorised on behalf of the Environment Agency

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Manchester Waste Recycling Limited

A1 Waste Transfer Station
Overman Way
Agecroft Commerce Park
Salford
M27 8BQ

Variation application number

EPR/MB3034AP/V005

Permit number

EPR/MB3034AP

A1 Waste Transfer Station

Permit number EPR/MB3034AP

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation is to add the following waste codes: 16 02 09*, 16 02 10*, 16 02 11*, 16 02 12*, 16 02 13*, 16 02 15*, 19 08 02, 19 10 04, 19 10 06 and 19 12 12. In addition, restrictions to the activities, to keep the permit within the waste regime have been added through an Agency Initiated Variation.

The schedules specify the changes made to the original permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Permit determined EPR/AB3939RT/A001	27/01/12	Permit issued to A1 Services (Manchester) Limited
Transfer determined EPR/MB3034AP/T001 (full transfer of permit EPR/AB3939RT)	15/11/12	Transfer of permit in full to Manchester Waste Recycling Limited
Variation determined EPR/MB3034AP/V002	06/03/17	Notice of variation issued.
Transfer and Environment Agency variation determined EPR/EB3903LV	29/03/17	Partial transfer of permit and Environment Agency initiated variation of permit complete
Part surrender determined EPR/MB3034AP	06/08/2020	Part surrender complete
Application Variation EPR/MB3034AP/V005	Duly made 30/06/2020	Application to add waste codes to the permit.
Response to request for information dated 31/07/20	05/08/2020	Revised risk assessment and information about the nearest groundwater abstraction to the site.
Response to request for information dated 02/10/20	05/10/2020	Clarification about waste piles and waste codes.
Response to Schedule 5 dated 06/08/20 and request for information dated 14/10/20	10/11/2020 and 17/11/2020	Fire Prevention Plan and electrical installation conditional report dated 10/11/20 and email from Claire Gettinby dated 17/11/20.
Variation determined EPR/MB3034AP/V005	18/12/2020	Notice of variation issued.

End of introductory note

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/MB3034AP

Issued to

Manchester Waste Recycling Limited (“the operator”)

whose registered office is

**Mayo House
4 Overman Way
Manchester
United Kingdom
M27 8BQ**

company registration number 05172249

to operate regulated facilities at

**A1 Waste Transfer Station
Overman Way
Agecroft Commerce Park
Salford
M27 8BQ**

to the extent set out in the schedules.

The notice shall take effect from 18/12/2020

Name	Date
Ian Sinclair	18/12/2020

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Table S1.2

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Part B4 of the application form	28/07/11
	Amended page 2 of Part B4 of application form	17/11/11
Fire Prevention Plan	Fire Prevention Plan Report No 12604/4B November 2020 and electrical installation conditional report and email from Claire Gettinby dated 17/11/20	10/11/20 and 17/11/20

Table S2.1

Table S2.1 Permitted waste types and quantities	
The total quantity of waste accepted at the site shall be less than 235,000 tonnes per year.	
Exclusions Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid • Putrescible wastes	
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	Wastes from mineral excavation
01 01 01	Wastes from mineral metalliferous excavation
01 01 02	Wastes from mineral non-metalliferous excavation
01 03	Wastes from physical and chemical processing of metalliferous minerals
01 03 06	Tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	Red mud from alumina production other than the wastes mentioned in 01 03 10
01 04	Wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
01 04 11	Wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	Tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	Wastes from stone cutting and sawing other than those mentioned in 01 04 07
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	Plant-tissue waste
02 01 04	Waste plastics (except packaging)
02 01 07	Wastes from forestry
02 01 10	Waste metal
02 02	Wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 03	Materials unsuitable for consumption or processing
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	Materials unsuitable for consumption or processing
02 04	Wastes from sugar processing
02 04 01	Soil from cleaning and washing beet
02 04 02	Off-specification calcium carbonate
02 05	Wastes from the dairy products industry
02 05 01	Materials unsuitable for consumption or processing
02 06	Wastes from the baking and confectionery industry
02 06 01	Materials unsuitable for consumption or processing
02 06 02	Wastes from preserving agents
02 07	Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	Wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	Wastes from spirits distillation
02 07 04	Materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	Wastes from wood processing and the production of panels and furniture
03 01 01	Waste bark and cork
03 01 05	Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	Wastes from pulp, paper and cardboard production and processing
03 03 01	Waste bark and wood
03 03 07	Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	Wastes from sorting of paper and cardboard destined for recycling
03 03 10	Fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	Wastes from the leather and fur industry
04 01 08	Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	Wastes from dressing and finishing
04 02	Wastes from the textile industry
04 02 21	Wastes from unprocessed textile fibres
04 02 22	Wastes from processed textile fibres
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 09	Wastes from the Manufacture, Formulation, Supply and Use (MFSU) of phosphorus chemical processes
06 09 02	Phosphorous slag
06 09 04	Calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	Wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	Calcium-based reaction wastes from titanium dioxide production
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	Wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	Waste plastic
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	Wastes from the photographic industry
09 01 07	Photographic film and paper containing silver or silver compounds
09 01 08	Photographic film and paper free of silver or silver compounds
09 01 10	Single-use cameras without batteries
09 01 12	Single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	Wastes from power stations and other combustion plants (except 19)
10 01 01	Bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	Calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	Calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	Wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	Sands from fluidised beds
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag
10 02 02	Unprocessed slag
10 02 08	Solid wastes from gas treatment other than those mentioned in 10 02 07

10 02 10	Mill scales
10 02 14	Filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	Other filter cakes
10 03	Wastes from aluminium thermal metallurgy
10 03 02	Anode scraps
10 03 05	Waste alumina
10 03 16	Skimmings other than those mentioned in 10 03 15
10 03 18	Carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	Solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	Filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	Wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	Wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	Wastes from lead thermal metallurgy
10 04 10	Wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	Wastes from zinc thermal metallurgy
10 05 01	Slags from primary and secondary production
10 05 09	Wastes from cooling-water treatment other than those mentioned in 10 05 08 primary and secondary production
10 05 11	Dross and skimmings other than those mentioned in 10 05 10
10 06	Wastes from copper thermal metallurgy
10 06 01	Slags from primary and secondary production
10 06 02	Dross and skimmings from primary and secondary production
10 06 10	Wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	Wastes from silver, gold and platinum thermal metallurgy
10 07 01	Slags from primary and secondary production
10 07 02	Dross and skimmings from primary and secondary production
10 07 03	Solid wastes from gas treatment
10 07 05	Filter cakes from gas treatment
10 07 08	Wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	Wastes from other non-ferrous thermal metallurgy
10 08 09	Other slags
10 08 11	Dross and skimmings other than those mentioned in 10 08 10
10 08 13	Carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	Anode scrap
10 08 18	Filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	Wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	Wastes from casting of ferrous pieces
10 09 03	Furnace slag
10 09 06	Casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	Casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	Waste binders other than those mentioned in 10 09 13
10 09 16	Waste crack-indicating agent other than those mentioned in 10 09 15
10 10	Wastes from casting of non-ferrous pieces
10 10 03	Furnace slag
10 10 06	Casting cores and moulds which have not undergone pouring other than those mentioned in 10 10 05
10 10 08	Casting cores and moulds which have undergone pouring other than those mentioned in 10 10 07
10 10 14	Waste binders other than those mentioned in 10 10 13
10 10 16	Waste crack-indicating agent other than those mentioned in 10 10 15
10 11	Wastes from manufacture of glass and glass products
10 11 03	Waste glass-based fibrous materials
10 11 10	Waste preparation mixture before thermal processing other than those mentioned in 10 11 09
10 11 12	Waste glass other than those mentioned in 10 11 11
10 11 16	Solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	Filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 12	Wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	Waste preparation mixture before thermal processing
10 12 05	Filter cakes from gas treatment
10 12 06	Discarded moulds
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processing)

10 12 10	Solid wastes from gas treatment other than those mentioned in 10 12 09	
10 12 12	Wastes from glazing other than those mentioned in 10 12 11	
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 01	Waste preparation mixture before thermal processing	
10 13 04	Wastes from calcination and hydration of lime	
10 13 07	Filter cakes from gas treatment	
10 13 10	Wastes from asbestos-cement manufacture other than those mentioned in 10 13 09	10
10 13 11	Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10	
10 13 13	Solid wastes from gas treatment other than those mentioned in 10 13 12	
10 13 14	Waste concrete	
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY	
11 01	Wastes from chemical surface treatment and coating of metals and other materials (for example; galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)	
11 01 10	Filter cakes other than those mentioned in 11 01 09	
11 01 14	Degreasing wastes other than those mentioned in 11 01 13	
11 02	Wastes from non-ferrous hydrometallurgical processes	
11 02 03	Wastes from the production of anodes for aqueous electrolytical processes	
11 02 06	Wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05	
11 05	Wastes from hot galvanising processes	
11 05 01	Hard zinc	
11 05 02	Zinc ash	
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS	
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics	
12 01 01	Ferrous metal filings and turnings	
12 01 03	Non-ferrous metal filings and turnings	
12 01 05	Plastics shavings and turnings	
12 01 13	Welding wastes	
12 01 17	Waste blasting material other than those mentioned in 12 01 16	
12 01 21	Spent grinding bodies and grinding materials other than those mentioned in 12 01 20	12
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01	Packaging (including separately collected municipal packaging waste)	
15 01 01	Paper and cardboard packaging	
15 01 02	Plastic packaging	
15 01 03	Wooden packaging	
15 01 04	Metallic packaging	
15 01 05	Composite packaging	
15 01 06	Mixed packaging	
15 01 07	Glass packaging	
15 01 09	Textile packaging	
15 02	Absorbents, filter materials, wiping cloths and protective clothing	
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)	
16 01 03	End-of-life tyres	
16 02	Wastes from electrical and electronic equipment	
16 02 09*	transformers and capacitors containing PCBs	
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC	
16 02 12*	discarded equipment containing free asbestos	
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12	
16 02 15*	hazardous components removed from discarded equipment	
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13	

16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15
16 03	Off-specification batches and unused products
16 03 04	Inorganic wastes other than those mentioned in 16 03 03
16 03 06	Organic wastes other than those mentioned in 16 03 05
16 06	Batteries and accumulators
16 06 04	Alkaline batteries (except 16 06 03)
16 06 05	Other batteries and accumulators
16 11	Waste linings and refractories
16 11 02	Carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01
16 11 04	Other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	Linings and refractories from non-metallurgical processes other than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	Bituminous mixtures, coal tar and tarred products
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01
17 04	Metals (including their alloys)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cable other than those mentioned in 17 04 10
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 08	Track ballast other than those mentioned in 17 05 07
17 06	Insulation materials and asbestos-containing construction materials
17 06 04	Insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05*	Construction materials containing asbestos
17 08	Gypsum-based construction materials
17 08 02	Gypsum-based construction materials other than those mentioned in 17 08 01
17 09	Other construction and demolition wastes
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES. OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE
19 01	Wastes from incineration or pyrolysis of waste
19 01 02	Ferrous materials removed from bottom ash
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	Sands from fluidised beds
19 02	Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	Premixed wastes composed only of non-hazardous wastes
19 02 10	Combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	Vitrified waste and wastes from vitrification
19 04 01	Vitrified waste
19 05	Wastes from aerobic treatment of solid wastes
19 05 01	Non-composted fraction of municipal and similar wastes
19 05 02	Non-composted fraction of animal and vegetable waste
19 05 03	Off-specification compost

19 08	wastes from waste water treatment plants not otherwise specified
19 08 02	waste from desanding
19 10	wastes from shredding of metal-containing wastes
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03*
19 10 06	other fractions other than those mentioned in 19 10 05*
19 12	Wastes from the mechanical treatment of waste (for example; sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	Paper and cardboard
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	Minerals (for example sand, stones)
19 12 10	Combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	Wastes from soil and groundwater remediation
19 13 02	Solid wastes from soil remediation other than those mentioned in 19 13 01
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 10	Clothes
20 01 11	Textiles
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 01 41	Wastes from chimney sweeping
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste
20 02 02	Soil and stones
20 03	Other municipal wastes
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 03	Street-cleaning residues
20 03 07	Bulky waste

The following conditions are amended as detailed, following an Environment Agency initiated variation

Table S1.1

Table S1.1 activities	
Description of activities for waste operations	Limits of activities
R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced).	Treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing, or compaction of non-hazardous waste into different components for disposal, (no more than 50 tonnes per day in aggregate) or recovery (75 tonnes per day in aggregate).
D15: Storage of waste pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).	The maximum quantity of asbestos waste received at the site shall not exceed 10 tonnes per day.
D9: Physico-chemical treatment not specified elsewhere in Annex I which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.	Except for WEEE awaiting manual sorting, manual dismantling, repair or refurbishment only, the maximum quantity of hazardous waste (in aggregate) that can be stored at the site shall not exceed 50 tonnes at any one time.
R3: Recycling/reclamation of organic substances which are not used as solvents.	There shall be no treatment of asbestos waste and waste electrical and electronic equipment (WEEE)
R4: Recycling/reclamation of metals and metal compounds.	Waste types as specified in Table S2.1.
R5: Recycling/reclamation of other inorganic materials.	No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste codes 16 01 03 and 19 12 04) shall be stored at the site.
	Wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery.

Schedule 3 – conditions to be added

None

Certificate of Registration under the Waste (England and Wales) Regulations 2011

Regulation authority

Name	
Address	National Customer Contact Centre 99 Parkway Avenue Sheffield S9 4WF
Telephone number	03708 506506

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011.

Carriers details

Name of registered carrier	A1 Services (Manchester) Ltd
Registered as	An upper tier waste carrier, broker and dealer
Registration number	CBDU97331
Address of place of business	A1 Services (Manchester) Overman Way Swinton Manchester M27 8BQ
Telephone number	(01617362020)
Date of registration	6 May 2022
Expiry date of registration (unless revoked)	2 July 2025

Making changes to your registration

Your registration will last 3 years and will need to be renewed after this period. If any of your details change, you must notify us within 28 days of the change.

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 518539 **Permit :** EPR/YP3234XR/V007

CUSTOMER: COO2863 A1 Services (Manchester) Ltd Mayo House 4 Overman Way Swinton Manchester M27 8BQ ORDER NO: 8413 SOURCE: 226 Manchester		HAULIER: COO2857 A1 Services (Manchester) Ltd Mayo House 4 Overman Way Manchester VEH. TYPE: TIPP TIPPER VEH. REG NO: PN71HSC CARRIER NO: CBDU97331 TRANSFER NO: HUNTER00002	
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils CONTAINER: GRID REF: SP3SQ - Job No. : L230619800001			
	WEIGHT KG'S	SEQ. NO	
GROSS	28440	000223	29/06/2023 11:58
TARE	13600	MANUAL	29/06/2023 11:58
NET	14840	MEASURE 14.84 Tonne	
PRINT NAME: PC-WEIGHBRIDGE	SIGNATURE ON BEHALF OF CUSTOMER: 		SIGNATURE FOR AUGEAN: 

The Hazardous Waste Regulations 2005: Consignment Note

Environment
Agency

CARRIER'S COPY

PART A Notification details

1 Consignment note code: **HUNTER/00002**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

**HUNTER ENVIRONMENTAL SERVICES,
ASTON OLD ROAD, OPENSHAW MILITARY**3 Premises code (where applicable): **0111**

4 The waste will be taken to (name, address and postcode):

**AUGAN, OFF MOUNTSMAN DRIVE,
PORT CLARENCE, MIDDOLESBROOK,
TS2 1UE**

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

DIA

PART B Description of the waste

1 The process giving rise to the waste(s) was: **EXCAVATION**2 SIC for the process giving rise to the waste: **43.11.1**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
HAZARDOUS SOILSTONE	170503	9250	HYDROCARBONS	>0.01	SOLID	H410 H411	8 WHEEL
HAZARDOUS SOILSTONE	170503	9250	METALS	>0.25	SOLID	H410 H411	8 WHEEL

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170503		HYDROCARBONS & METALS			STANDARD PPE

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here: ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

1 Carrier name: **AI SERVICES (MANCHESTER) LTD**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**MAYO HOUSE, 4 OVERMAN WAY,
AGECROFT, MICK M27 8BP**

2 Carrier registration no./reason for exemption:

CB00973313 Vehicle registration no. (or mode of transport, if not road): **PNT1 HSC**Signature **[Signature]**Date **28062023** Time **1530**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

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.

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**HUNTER PLANT HIRE
641 NORTH ALCOCK ROAD
LONDON NW2 7AY**Signature **[Signature]**Date **28062023** Time **1153**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	14840	accepted	D09

1 I received this waste at the address given in A4 on: Date **29062023** Time **0950**2 Vehicle registration no. (or mode of transport if not road): **PNT1 HSC**Name: **D Brennan**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

AS4

I certify that waste permit/exempt waste operation number:

4P3234x1V0007

authorises the management of the waste described in B at the address given in A4.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature **[Signature]**Date **29062023** Time **1153**

ADVICE/WASTE TRANSFER NOTE **TICKET NO:** 518543 **Permit :** EPR/YP3234XR/VO07

CUSTOMER: C002863 A1 Services (Manchester) Ltd Mayo House 4 Overman Way Swinton Manchester M27 8BQ ORDER NO: 8413 SOURCE: 226 Manchester		HAULIER: C002857 A1 Services (Manchester) Ltd Mayo House 4 Overman Way Manchester VEH. TYPE: TIPP TIPPER VEH. REG NO: PN71HRW CARRIER NO: CBDU97331 TRANSFER NO: HUNTER00001	
WASTE TYPE: WASTE CATEGORY: L170503 - Contaminated Soils			
CONTAINER:		GRID REF: SP3SQ - Job No. : L230619800002	
	WEIGHT KG'S	SEQ. NO	DATE TIME
GROSS	28900	000226	29/06/2023 12:10
TARE	13200	MANUAL	29/06/2023 12:10
NET	15700	MEASURE 15.70 Tonne	
PRINT NAME: PC-WEIGHBRIDGE	SIGNATURE ON BEHALF OF CUSTOMER: 		SIGNATURE FOR AUGEAN: 

The Hazardous Waste Regulations 2005: Consignment Note



Environment
Agency

CARRIER'S COPY

PART A Notification details

1 Consignment note code: **HUNTER/00001**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

**HUNTER ENVIRONMENTAL SERVICES,
ASHTON OLD ROAD, ORENSHAW MILITARY**

3 Premises code (where applicable): **0111**

4 The waste will be taken to (name, address and postcode):

**PUCEAN, OFF MOUNTSMAN DRIVE,
PORT CLARENCE, MIDDOLEBROOK
TS2 1UE**

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

DIA

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: **EXCAVATION**

2 SIC for the process giving rise to the waste: **43.111**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
HAZARDOUS SOIL STONE	170503	9250	HYDROCARBONS	>0.01	SOLID	H410 H411	8 WHEEL
HAZARDOUS SOIL STONE	170503	9250	METALS	>0.25	SOLID	H410 H411	8 WHEEL

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170503		HYDROCARBONS & METALS			STANDARD APE

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here: ☐)

I certify that I today collected the consignment and that the details in A2, A4 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

/

1 Carrier name: **AI SERVICES (MANCHESTER) LTD**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**MAYO HOUSE, 4 OVERMAN WAY,
AQUEDUCT, MICK M27 8BP**

2 Carrier registration no./reason for exemption:

CBDU97331

3 Vehicle registration no. (or mode of transport, if not road):

PN11 HNW

Signature

Date **28062023** Time **1530**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

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.

1 Consignor name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

**HUNTER PLANT HIRE
641 NORTH ARCADE ROAD
LONDON NW2 7AY**

Signature

Date **28062023** Time **1111**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	15700		D09

1 I received this waste at the address given in A4 on: Date **29062023** Time **1211**

2 Vehicle registration no. (or mode of transport if not road):

PN71 HNW

Name: **D Foreman**

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

ASAY

I certify that waste permit/exempt waste operation number:

Y832342XN0007

authorises the management of the waste described in B at the address given in A4.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Signature

Date **29062023** Time **1211**