

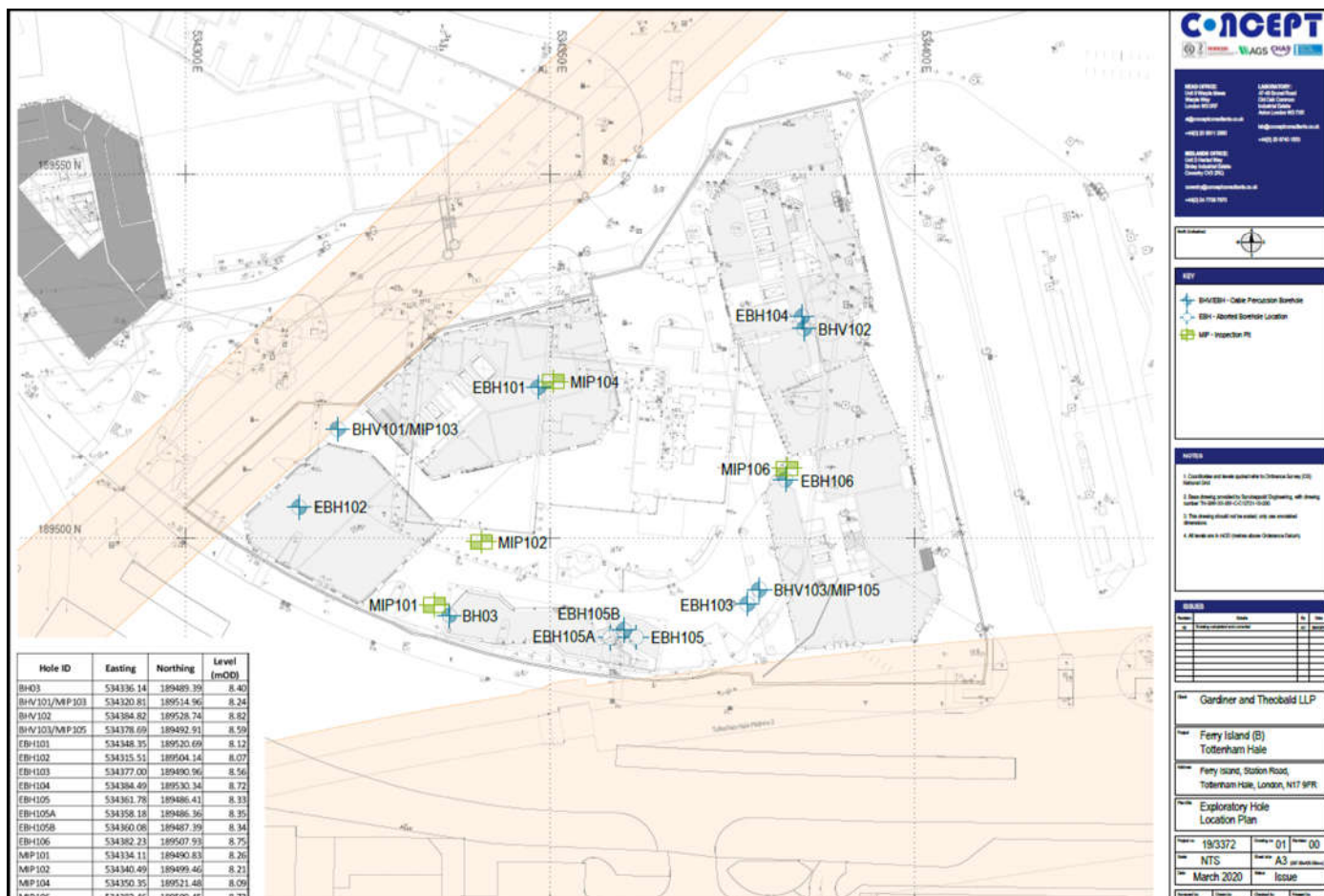


2.0 SITE SAMPLING

A previous waste classification assessment undertaken by Powell Associates Limited (ref. JRLEFIWCR1 dated 22/02/2022) identified hazardous soil and stones (LoW Code 170503*) at two locations:

- BHV102 @ 0.0mbgl and 0.3mbgl due to elevated total petroleum hydrocarbons (TPH).
- EBH105B @ 2.5mbgl due to elevated TPH.

The locations are shown on the plan below:



As part of the enabling works J. Reddington Limited (JRL) excavated out the visually impacted materials at the two locations to remove the hazardous soil and stones.

A geo-environmental engineer from TGEN visited the site on 13/09/2022 to assess the nature of the strata encountered. This included:

- A physical description of the arisings in accordance with relevant AGS and BSI standards.
- An assessment of visual and olfactory evidence of contamination.
- The recovery of representative samples.
- The submission of samples to a UKAS/MCERTS accredited laboratory for analysis.

During the visit, samples of materials were recovered from the four sides (N, S, E and W) and the base (B) of each of the excavations in order to demonstrate that the hazardous material had been successfully removed or, if not, that additional excavation was required to extend the excavation laterally and/or vertically in order to remove additional materials. If the latter, then the validation process would need to be repeated.



2.1 Hotspot Excavations

Hotspot excavations were undertaken at the following locations where hazardous waste had been identified in previous site investigations:

BHV102

Sampling Date	Reference	Physical Description	Photograph
13/09/2022	BHV102-V1-N BHV102-V1-S BHV102-V1-E BHV102-V1-W BHV102-V1-B	At BHV102, made ground was previously encountered to a depth of circa 0.95mbgl, underlain by Enfield Silt. Elevated TPH was encountered in the top 0.3m of the profile. A thin layer of dark brown/black made ground was encountered at near surface with occasional fragments of asphalt. This material was chased out to a depth of circa 0.95mbgl. The excavation measured circa 5m by 5m and was circa 0.95m deep. The soils around the sides were a brown, sandy silty clay made ground with gravel and occasional fragments of brick and concrete. The soils at the base were an orange/brown sandy silt. There was no significant odour in the soils around the base and sides of the excavation and the PID readings were <1ppm. No asbestos was seen during the sampling.	

EBH105B

Sampling Date	Reference	Physical Description	Photograph
13/09/2022	EBH105B-V1-N EBH105B-V1-S EBH105B-V1-E EBH105B-V1-W EBH105B-V1-B	At EBH105B, made ground was previously encountered to a depth of circa 3.7mbgl. Whilst the previous VOC readings were low (0ppm) a sample from 2.5mbgl returned an elevated concentration of TPH. The overlying made ground was excavated out until a depth of 2.5m was achieved. The excavation was progressed to circa 3.5m deep, although was hampered by water ingress. The excavation measured circa 3.5m by 5m and was circa 3.5m deep. The soils around the sides and base of the excavation were a dark grey, slightly sandy gravel with occasional fragments of brick, concrete, glass, plastic and wire. There was no significant odour in the soils around the base and sides of the excavation and the PID readings were <1ppm. No asbestos was seen during the sampling.	



2.2 Validation Testing

The samples were subjected to a programme of testing targeted at the elevated/hazardous compound(s), in this case TPH and PAH, identified in the previous investigation(s). The laboratory test reports are presented in Appendix A, which can be summarised as follows.

BHV102

Ref	Chemical Summary	Waste Classification
	Solid	LoW Code
BHV102-V1-N	No significant contamination, low concentrations of TPH and PAH.	170504
BHV102-V1-S	No significant contamination, low concentrations of TPH and PAH.	170504
BHV102-V1-E	No significant contamination, low concentrations of TPH and PAH.	170504
BHV102-V1-W	No significant contamination, low concentrations of TPH and PAH.	170504
BHV102-V1-B	No significant contamination, low concentrations of TPH and PAH.	170504

The samples of soil from around the perimeter and base of the hotspot excavation at BHV102 returned low concentrations of TPH and PAH. None of the concentrations would be considered hazardous and demonstrated the successful removal of the previously identified hazardous TPH contamination at this location.

EBH105B

Ref	Chemical Summary	Waste Classification
	Solid	LoW Code
EBH105B-V1-N	No significant contamination, low concentrations of TPH and PAH.	170504
EBH105B-V1-S	No significant contamination, low concentrations of TPH and slightly elevated PAH.	170504
EBH105B-V1-E	No significant contamination, low concentrations of TPH and PAH.	170504
EBH105B-V1-W	No significant contamination, low concentrations of TPH and PAH.	170504
EBH105B-V1-B	No significant contamination, low concentrations of TPH and slightly elevated PAH.	170504

The samples of soil from around the perimeter and base of the hotspot excavation at EBH105 returned low concentrations of TPH and generally low concentrations of PAH. At two locations (S face and Base) the samples returned slightly elevated concentrations of PAH. None of the concentrations returned by the samples would be considered hazardous and as such, whilst there is some residual contamination in the made ground at this location, the results demonstrate the successful removal of the previously identified hazardous TPH contamination at this location.

3.0 SUMMARY

The samples of soil recovered from the sides and base of the hotspot excavations at BHV102 and EBH105 returned concentrations of TPH and PAH that were not hazardous, significantly below that returned by the samples recovered during the previous site investigation demonstrating the successful removal of the hazardous soils at these locations.

Whilst no further hotspot excavation is considered necessary at these two locations, we would recommend that during future phases of the development a discovery strategy for unexpected contamination is implemented in the event that soils of an unusual appearance and/or odour are encountered across other parts of the site.

We trust that this report meets your requirements, but please contact us should you require clarification on any of the matters raised. Thank you for your custom and we hope that we can be of further assistance to you in the future.

Paul Brewer
 BSc (Hons), MSc, Ml Soil Sci, CSci
 Senior Environmental Consultant
 (for and on behalf of Terragen Environmental Consultants Limited)

Dr. Barry Powell
 BSc (Hons), PhD, MCIWM
 Principal Consultant



4.0 LIMITATIONS AND USE OF THE REPORT

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations or conclusions set out in this report.

- a) This report has been prepared for the purpose of providing interpretation on analytical results supplied by the Client pursuant to its appointment of Terragen Environmental Consultants Limited to act as a Consultant.
- b) These comments are given in good faith on the basis of the results provided. Terragen Environmental Consultants Limited can bear no responsibility for any inaccuracies that may arise from the laboratory testing.
- c) This report does not constitute a qualitative risk assessment of the site or the soils and is not based upon a conceptual site model as we have been provided with insufficient information to establish the existence of potential sources of contamination, plausible pathways, or sensitive receptors and therefore assumes that they exist.
- d) The report is unable to comment on the potential risks to controlled waters (groundwater or surface water), although where contaminant concentrations are below relevant threshold criteria in most circumstances it may be considered that the risk is low.
- e) We have assumed that the results are representative of the area sampled. This does not imply that they may be considered representative of the site itself. Terragen Environmental Consultants Limited can accept no responsibility for the integrity of the sampling regime.
- f) Save for the Client no duty is undertaken or warranty or representation made to any party in respect of the opinions, advice, recommendations or conclusions herein set out.
- g) All work carried out in preparing this report has used, and is based upon, our professional knowledge and understanding of the current relevant English and European Community standards, approved codes of practice, technology and legislation.
Changes in the above may cause the opinion, advice, recommendations or conclusions set out in this report to become inappropriate or incorrect. However, in giving its opinions, advice, recommendations and conclusions, Terragen Environmental Consultants Limited has considered pending changes to environmental legislation and regulations of which it is currently aware. Following delivery of this report, we will have no obligation to advise the Client of any such changes, or of their repercussions.
- h) Terragen Environmental Consultants Limited acknowledges that it is being retained, in part, because of its knowledge and experience with respect to environmental matters. Terragen Environmental Consultants Limited will consider and analyse all information provided to it in the context of our knowledge and experience and all other relevant information known to us. To the extent that the information provided to us is not inconsistent or incompatible therewith, Terragen Environmental Consultants Limited shall be entitled to rely upon and assume, without independent verification, the accuracy and completeness of such information.
- i) The content of this report represents the professional opinion of experienced environmental consultants. Terragen Environmental Consultants Limited does not provide specialist legal advice and the advice of lawyers may be required.
- j) In the Summary and Recommendations sections of this report, Terragen Environmental Consultants Limited has set out our key findings and provided a summary and overview of our advice, opinions and recommendations. However, other parts of this report will often indicate the limitations of the information obtained by Terragen Environmental Consultants Limited and therefore any advice, opinions or recommendations set out in the Executive Summary, Summary and Recommendations sections ought not to be relied upon unless they are considered in the context of the whole report.
- k) The lack of evidence of the presence of hazardous or harmful materials at the subject property does not guarantee the absence of such materials; rather it indicates only that none were found as a result of the services provided. The services described in this report were performed in accordance with the general practices and procedures accepted in the consulting field.



Appendix A Laboratory Test Reports.

Paul Brewer

Terragen Environmental Consultants Limited
The Ridings
4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

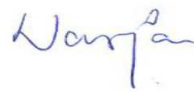
e: paul@tgen.co.uk

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

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

Analytical Report Number : 22-83956

Project / Site name:	Ferry Island, Tottenham Hale Plot B, 125-139 High Cross Road, London N179NU	Samples received on:	14/09/2022
Your job number:	TJ3885A02	Samples instructed on/ Analysis started on:	14/09/2022
Your order number:	TJ3885A02	Analysis completed by:	21/09/2022
Report Issue Number:	1	Report issued on:	21/09/2022
Samples Analysed:	5 soil samples		



Signed:

Dominika Warjan
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 22-83956

Project / Site name: Ferry Island, Tottenham Hale Plot B, 125-139 High Cross Road, London N179NU

Your Order No: TJ3885A02

Lab Sample Number				2423790	2423791	2423792	2423793	2423794
Sample Reference				BHV102-V1-N	BHV102-V1-S	BHV102-V1-E	BHV102-V1-W	BHV102-V1-B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	15	14	12	10
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.52	< 0.05	< 0.05	0.29	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	0.6	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1	< 0.05	< 0.05	0.56	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.63	< 0.05	< 0.05	0.51	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.55	< 0.05	< 0.05	0.35	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.64	< 0.05	< 0.05	0.58	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.45	< 0.05	< 0.05	0.2	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.64	< 0.05	< 0.05	0.41	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.32	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.34	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	6.23	< 0.80	< 0.80	3.5	< 0.80
-----------------------------	-------	-----	--------	------	--------	--------	-----	--------

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 22-83956

Project / Site name: Ferry Island, Tottenham Hale Plot B, 125-139 High Cross Road, London N179NU

Your Order No: TJ3885A02

Lab Sample Number				2423790	2423791	2423792	2423793	2423794
Sample Reference				BHV102-V1-N	BHV102-V1-S	BHV102-V1-E	BHV102-V1-W	BHV102-V1-B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 _{HS,1D,AL}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 _{HS,1D,AL}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 _{HS,1D,AL}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	0.1
TPH-CWG - Aliphatic >EC10 - EC12 _{EH,CU,1D,AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.9
TPH-CWG - Aliphatic >EC12 - EC16 _{EH,CU,1D,AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	29
TPH-CWG - Aliphatic >EC16 - EC21 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	73
TPH-CWG - Aliphatic >EC21 - EC35 _{EH,CU,1D,AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	63
TPH-CWG - Aliphatic (EC5 - EC35) _{EH,CU+HS,1D,AL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	170
TPH-CWG - Aromatic >EC5 - EC7 _{HS,1D,AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS,1D,AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS,1D,AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 _{EH,CU,1D,AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 _{EH,CU,1D,AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	23
TPH-CWG - Aromatic >EC16 - EC21 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	11	< 10	< 10	12	48
TPH-CWG - Aromatic >EC21 - EC35 _{EH,CU,1D,AR}	mg/kg	10	MCERTS	20	< 10	< 10	24	21
TPH-CWG - Aromatic (EC5 - EC35) _{EH,CU+HS,1D,AR}	mg/kg	10	MCERTS	31	< 10	< 10	36	92

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-83956

Project / Site name: Ferry Island, Tottenham Hale Plot B, 125-139 High Cross Road, London N179NU

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2423790	BHV102-V1-N	None Supplied	None Supplied	Light brown clay and sand with gravel.
2423791	BHV102-V1-S	None Supplied	None Supplied	Brown clay and sand.
2423792	BHV102-V1-E	None Supplied	None Supplied	Brown clay and sand.
2423793	BHV102-V1-W	None Supplied	None Supplied	Brown clay and loam with gravel.
2423794	BHV102-V1-B	None Supplied	None Supplied	Brown clay and sand with gravel.

Analytical Report Number : 22-83956

Project / Site name: Ferry Island, Tottenham Hale Plot B, 125-139 High Cross Road, London N179NU

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Paul Brewer
Terragen Environmental Consultants Limited
The Ridings
4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

e: paul@tgen.co.uk

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

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

Analytical Report Number : 22-83950

Project / Site name:	Ferry Island Tottenham Hale Plot B 123-139 High Cross Road London N17 9NU	Samples received on:	14/09/2022
Your job number:	TJ3885A03	Samples instructed on/ Analysis started on:	14/09/2022
Your order number:	TJ3885A03	Analysis completed by:	22/09/2022
Report Issue Number:	1	Report issued on:	22/09/2022
Samples Analysed:	5 soil samples		

Signed:



Dominika Warjan
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 22-83950

Project / Site name: Ferry Island Tottenham Hale Plot B 123-139 High Cross Road London N17 9NU

Your Order No: TJ3885A03

Lab Sample Number	2423764	2423765	2423766	2423767	2423768
Sample Reference	EBH105-V1-N	EBH105-V1-S	EBH105-V1-E	EBH105-V1-W	EBH105-V1-B
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	6.5
Total mass of sample received	kg	0.001	NONE	0.9	0.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	3.1	< 0.05	< 0.05	0.33
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	2.3	0.3	1.3	2.4
Fluorene	mg/kg	0.05	MCERTS	< 0.05	1.3	< 0.05	0.86	1.7
Phenanthrene	mg/kg	0.05	MCERTS	0.83	7.7	2.3	8	23
Anthracene	mg/kg	0.05	MCERTS	< 0.05	6.7	0.69	2.2	6.2
Fluoranthene	mg/kg	0.05	MCERTS	1.8	7.9	4	11	45
Pyrene	mg/kg	0.05	MCERTS	1.8	8	3.6	9.9	41
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.4	4.8	3.1	6.2	27
Chrysene	mg/kg	0.05	MCERTS	0.87	4.4	2	3.6	17
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.3	16	2.9	6	24
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.67	6.7	1.4	2.6	12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	20	2.3	6	24
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.6	5.4	1.4	2.7	11
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.3	0.28	0.74	2.3
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.76	7.8	1.9	3.6	13

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	11.1	104	26.2	64.8	250
-----------------------------	-------	-----	--------	------	-----	------	------	-----

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	2.5	< 2.0	4	2.2
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	14	< 8.0	15	15
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	80	110	23	49	66
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	MCERTS	88	130	23	68	83

Analytical Report Number: 22-83950

Project / Site name: Ferry Island Tottenham Hale Plot B 123-139 High Cross Road London N17 9NU

Your Order No: TJ3885A03

Lab Sample Number				2423764	2423765	2423766	2423767	2423768
Sample Reference				EBH105-V1-N	EBH105-V1-S	EBH105-V1-E	EBH105-V1-W	EBH105-V1-B
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	9.3	< 2.0	5.8	9.8
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	58	12	50	100
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	19	240	48	83	160
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	MCERTS	21	310	60	140	270

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-83950

Project / Site name: Ferry Island Tottenham Hale Plot B 123-139 High Cross Road London N17 9NU

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2423764	EBH105-V1-N	None Supplied	None Supplied	Brown sandy loam with gravel.
2423765	EBH105-V1-S	None Supplied	None Supplied	Brown clay and sand with gravel and rubble.
2423766	EBH105-V1-E	None Supplied	None Supplied	Brown sand with gravel.
2423767	EBH105-V1-W	None Supplied	None Supplied	Brown clay and loam with gravel and brick.
2423768	EBH105-V1-B	None Supplied	None Supplied	Brown clay and loam with gravel and brick.

Analytical Report Number : 22-83950

Project / Site name: Ferry Island Tottenham Hale Plot B 123-139 High Cross Road London N17 9NU

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0738-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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



Appendix K

Site Inspection Reports (Formation Level Testing).

Our Ref. TJ3994ER1

J. Reddington Limited
4 Elstree Way
Borehamwood
WD6 1RN

22nd February 2024

FAO: Rob Welling

Ferry Island, Tottenham Hale (Plot B), 125-139 High Cross Road, London N17 9NU

Waste Classification Report

Please find attached the results of laboratory testing carried out on four samples of soil recovered from Ferry Island, Tottenham Hale (Plot B), 125-139 High Cross Road, London N17 9NU (the site) by a geo-environmental engineer from Terragen Environmental Consultants Limited (TGEN) on 08/02/2024. The samples represent made ground and natural ground (soil and stones) being generated from enabling works excavations and will be excess to requirements and need to be removed from site.

2.0 SITE DESCRIPTION

The Tottenham Hale Centre (THC) development consists of five different sites: Welbourne, North Island, Ferry Island, Ashley Road East, and Ashley Road West. Prior to 1864, Ferry Island (Plot B) was predominantly residential with a pumping station occupying the E boundary. By 1936, the residential properties in the SW had been developed into a single building and the pumping station was no longer present. During the 1970s and 80s the site was cleared, and a new road junction constructed, in the SE corner of the site. More recently and prior to the current development Ferry Island has been occupied by three commercial units including KFC, Pizza Hut, and Maplin, with associated car parking.

The proposed THC development essentially comprises the demolition of the existing structures and the construction of residential-led development with retail/business uses alongside; servicing, highways improvements and public amenity space including soft and hard landscaped areas creating an improved public realm.

We understand that as part of the development there will be a shallow reduced level excavation followed by placement of a pile mat, piling, pile cap excavations and a deep basement excavation, which will generate in total circa 26790m³ of material for disposal from site as waste. It is likely that circa 7170m³ (27%) of the arisings will be made ground, of which circa 2870m³ will be pile mat and hardstanding, and circa 19620m³ (73%) will be uncontaminated and inert natural soil and pile arisings.

The anticipated geology at the Ferry Island site comprises made ground overlying superficial deposits of Enfield Silt and River Terrace Deposits. The London Clay is at depth and in the order of 15m thick, underlain by the Lambeth Group, Thanet Sand and White Chalk.

Two site investigation reports have been prepared by Langan International (ref. 841011101 dated 26/07/2018 and 04/11/2021) on behalf of Whitby Wood, which comprised the progression of thirteen exploratory holes. The strata encountered confirmed the anticipated geology and comprised made ground, on average circa 1.7m thick, typically containing only a small quantity of deleterious materials, such as fragments of clinker and tarmac, with no visual or olfactory evidence of significant contamination. Asbestos containing material was not visible during the previous site investigations, but it was detected at low concentrations in three samples of made ground tested. Made ground overlies natural and uncontaminated (inert) Enfield Silt, Kempton Park Gravel, and London Clay.

During the previous investigations thirty-five samples were taken from the thirteen exploratory hole locations to depths of up to 6.2mbgl representing circa 26790m³ of enabling works excavations at the site.



3.0 SITE SAMPLING

A geo-environmental engineer from TGEN visited the site on 08/02/2024 to assess the nature of the strata encountered. This included:

- ✦ A physical description of the arisings in accordance with relevant AGS and BSI standards.
- ✦ An assessment of visual and olfactory evidence of contamination.
- ✦ The recovery of representative samples.
- ✦ The submission of samples to a UKAS/MCERTS accredited laboratory for analysis.

During the visit, routine reassurance samples of materials were recovered and included the following:

- ✦ Four samples of natural ground from foundation level excavations (FL).

4.0 MATERIALS ASSESSMENT

In accordance with the LoW (as amended), the CD&E arisings encountered during this sampling exercise are mirror entries with a mirror hazardous (MH) entry and a mirror non-hazardous (MN) entry as follows:

- ✦ Soil and stones containing dangerous substances (LoW Code 170503*) – MH.
- ✦ Soil and stones not containing dangerous substances (LoW Code 170504) - MN.

4.1 Physical Appearance of the Waste

Natural Ground at Foundation Level (FL)

Sampling Date	Reference	Physical Description	Photograph
08/02/2024	FL/0802/01 FL/0802/02 FL/0802/03 FL/0802/04	Brown and dark grey, firm to stiff, slightly sandy, slightly silty clay. There was no significant odour and the PID reading was <1ppm. No asbestos was seen during the sampling and there was no visual or olfactory evidence of contamination. Based on the physical description, the natural ground arisings could be described as: Soil and stones not containing dangerous substances (LoW Code 170504) - MN.	



4.2 Chemical Nature of the Waste

The samples were subjected to a programme of laboratory testing, which included an asbestos screen and a suite of potential contaminants associated with a wide range of potential activities to confirm the preliminary waste classification based on the physical description of the material sampled. The laboratory test reports are presented in Appendix A, which can be summarised as follows.

Natural Ground at Foundation Level (FL)

Ref	Chemical Summary		Waste Classification
	Asbestos	Solid	LoW Code
FL/0802/01	NAD	No significant contamination	170504
FL/0802/02	NAD	No significant contamination	170504
FL/0802/03	NAD	No significant contamination	170504
FL/0802/04	NAD	No significant contamination	170504

NAD No asbestos observed during sample preparation or detected in the sample.

5.0 SUMMARY

No asbestos was observed during the sampling, and none was detected in the samples, which all returned low concentrations of potential contaminants. As such, the material represented by the samples (natural ground from foundation level) would be classified as:

Soil and stones not containing hazardous substances (LoW Code 170504).

The concentrations returned by the samples of made ground were not hazardous and as such, it is likely that the material represented by these samples would be suitable for acceptance and treatment at a typical soil and aggregates recycling facility (e.g., SR2010 No12).

The naturally occurring soils (London Clay) was free from visual and/or olfactory evidence or any suspicion of contamination, as confirmed by returning low concentrations of all potential contaminants and would be classified as soil and stones not containing hazardous substances (LoW Code 170504), suitable for disposal to an inert permitted landfill/facility without the need for testing. Furthermore, it is likely that the uncontaminated, naturally occurring arisings would be considered suitable for direct transfer to and reuse on a development site in line with a materials management plan in accordance with the CL:AIRE Definition of Waste: Development Industry Code of Practice (DoWCoP).

We would recommend that during any excavation associated with future phases of the development, should materials previously unidentified during the various investigations be encountered (e.g., an unusual appearance and/or odour etc.), works are halted in that area and the advice of a geo-environmental specialist be sought to determine an appropriate course of action. We would also advise you to employ routine waste practices when managing the disposal of the waste material (i.e. visual and olfactory inspections of all loads leaving the site) to ensure that the material remains consistent and suitable for recovery or disposal at your chosen facility in accordance with level 1, level 2 and level 3 waste acceptance procedures. Please be aware that your duty of care paperwork now needs to include the following:

-  The relevant UK SIC Code.
-  A declaration that you have fulfilled your duty to apply the waste hierarchy.
-  The relevant LoW Code.

We trust that this report meets your requirements, but please contact us should you require clarification on any of the matters raised. Thank you for your custom and we hope that we can be of further assistance to you in the future.

Paul Brewer
BSc (Hons), MSc, MI Soil Sci
Senior Environmental Consultant

(for and on behalf of Terragen Environmental Consultants Limited)

Dr. Barry Powell
BSc (Hons), PhD, MCIWM
Principal Consultant



WASTE CLASSIFICATION FRAMEWORK

One of the relevant objectives of the Revised Waste Framework (WFD) Directive (2018/851/EC) is to ensure that waste is recovered or disposed without endangering human health and without using processes or methods which could harm the environment, and without:

- ❏ Risk to water, air, soil, plants, or animals.
- ❏ Causing nuisance through noise or odours.
- ❏ Adversely affecting the countryside or places of special interest.

It also provides the general framework of waste management requirements and sets the basic EU waste management definitions. The List of Waste (LoW) Amendment Decision (2014/955/EU) establishes the classification system, including the distinction between hazardous and non-hazardous wastes. It is closely linked to the main characteristics that render waste hazardous as contained in Annex III of the WFD. The amendments came into force to align waste classification with relevant sections of and approaches used in EU chemicals regulations, such as REACH (1907/2006/EC) and the CLP (1272/2008/EC), which in turn adapt for the EU the UN globally harmonised system for chemicals classification. In 2020 and 2021, GB and the UK introduced its own set of waste classification regulations, such as the CLP, REACH and the mandatory classification and labelling list, which retain, mirror and/or replace relevant EU regulations.

Waste is not considered to be a substance, a mixture or an article. Consequently, obligations under the REACH and the CLP regulations do not apply for producers or holders of waste. Nevertheless, information generated in the frameworks of REACH and the CLP that set criteria for substances to be classified as hazardous are related to some of the hazardous properties applicable to the classification of waste. Annex VI of the CLP contains official harmonised classifications of substances, which must be used where the classification of waste depends on the presence of hazardous substances. The classification of substances is periodically updated by the European Chemicals Agency in the form of a new EU regulation, which automatically amends the CLP.

The Landfill Directive (1999/31/EC) defines the categories of waste applicable to landfill sites as hazardous, non-hazardous, municipal and inert. A landfill is defined as a waste disposal site for the deposit of waste onto or into land. Landfills are divided into three classes:

- ❏ Landfills for hazardous waste.
- ❏ Landfills for non-hazardous waste.
- ❏ Landfills for inert waste.

The three main categories of waste and the options for landfilling are as follows:

- ❏ Hazardous with or without additional treatment prior to landfill or stable non-reactive hazardous waste (SNRHW) suitable for placement in a dedicated cell in a suitably permitted non-hazardous landfill site.
- ❏ Non-hazardous.
- ❏ Inert and suitable for disposal to an appropriately permitted landfill site.

To determine the presence and significance of hazards associated with any construction, demolition and earthworks (CD&E) arisings and therefore the resultant options for management of the materials, and where necessary the appropriate class of facility the waste can be taken to, it is therefore necessary to:

- ❏ Determine the presence of hazardous properties within the materials.
- ❏ Determine the category of the waste.
- ❏ Determine if the waste meets the requirements for reuse onsite, recovery or recycling on or offsite, or disposal offsite as waste.

The main statutory guidance document used to properly classify waste as either hazardous or non-hazardous in the UK is Guidance on the Classification and Assessment of Waste (WM3). The stepped methodology for classifying a waste and assessing any hazardous properties is as follows:

- ❏ Check if the waste needs to be classified.
- ❏ Identify the code that may apply to the waste.
- ❏ Identify the assessment required to select the correct code.
- ❏ Determine the chemical composition of the waste.
- ❏ Determine if the substances in the waste are hazardous substances or persistent organic pollutants.
- ❏ Assess the hazardous properties of the waste.
- ❏ Assign and describe the classification code.



The waste types disposed to a landfill site permitted to accept inert waste or recovered at a site permitted or exempted in accordance with UK regulations and statutory guidance should be classified as inert. No hazardous or contaminated wastes, as defined in the Waste Acceptance Criteria (WAC) and Procedures Directive (2003/33/EC), should be accepted at such sites. The source and origin of the waste along with a description (e.g. physical form, consistency, composition, colour, odour and likely behaviour etc.) should be determined for all material accepted at such inert waste facilities. The materials should be stable, non-reactive and with a sufficient bearing capacity for the end use.

In accordance with the Landfill Directive and UK statutory guidance, the only materials allowed for disposal or recovery at such inert waste facilities without more detailed information (e.g. chemical analyses, site investigation data etc.) should be restricted to single source material from a known site and a reliable producer. The material from the site or source should not be contaminated and should not contain significant quantities of deleterious materials such as wood, plastic etc. Materials potentially suitable for recovery at such inert waste facilities without laboratory analysis should be restricted to the following:

LoW Code	Description	Restrictions
170101	Concrete	Selected CD&E waste only
170102	Bricks	Selected CD&E waste only
170103	Tiles & Ceramics	Selected CD&E waste only
170107	Mixture of Concrete, Bricks, Tiles & Ceramics	Selected CD&E waste only
170504	Soil & Stones (e.g. natural clay & sand etc.)	Selected CD&E waste not from contaminated sites*
200202	Soil & Stones (e.g. natural clay & sand etc.)	Selected garden & park waste only*

- *Excluding topsoil or peat when used as subsoil or fill.
- Selected CD&E or garden & park waste with low (non-significant) contents of other types of materials (i.e. metals, plastics, organics, wood, rubber etc.). The origin of the waste must be known and relevant information regarding the waste must have been assessed.
- No CD&E waste from buildings or land contaminated with dangerous substances (e.g. 170106 & 170503).
- No CD&E waste from buildings treated or painted with dangerous substances in significant amounts.
- These materials should only be accepted if they arise from a single identified source.
- Mixtures of different types of these wastes from the same single source are acceptable without testing.
- Mixtures of these wastes from different sources are not acceptable unless pre-testing is carried out.

If the waste materials were determined as hazardous or potentially inert and required disposal to landfill, then a further stage of assessment would be required to determine if the waste meets the requirements for disposal at a particular category of landfill facility. This is done in the form of WAC testing. It should be noted that the associated regulations and statutory guidance do not apply to the use of suitable uncontaminated waste for redevelopment, restoration and filling in work or for construction purposes, or for recovery activities.



LIMITATIONS AND USE OF THE REPORT

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations or conclusions set out in this report.

- a) This report has been prepared for the purpose of providing interpretation on analytical results supplied by the Client pursuant to its appointment of Terragen Environmental Consultants Limited to act as a Consultant.
- b) These comments are given in good faith on the basis of the results provided. Terragen Environmental Consultants Limited can bear no responsibility for any inaccuracies that may arise from the laboratory testing.
- c) This report does not constitute a qualitative risk assessment of the site or the soils and is not based upon a conceptual site model as we have been provided with insufficient information to establish the existence of potential sources of contamination, plausible pathways, or sensitive receptors and therefore assumes that they exist.
- d) The report is unable to comment on the potential risks to controlled waters (groundwater or surface water), although where contaminant concentrations are below relevant threshold criteria in most circumstances it may be considered that the risk is low.
- e) We have assumed that the results are representative of the area sampled. This does not imply that they may be considered representative of the site itself. Terragen Environmental Consultants Limited can accept no responsibility for the integrity of the sampling regime.
- f) Save for the Client no duty is undertaken or warranty or representation made to any party in respect of the opinions, advice, recommendations or conclusions herein set out.
- g) All work carried out in preparing this report has used, and is based upon, our professional knowledge and understanding of the current relevant English and European Community standards, approved codes of practice, technology and legislation.
Changes in the above may cause the opinion, advice, recommendations or conclusions set out in this report to become inappropriate or incorrect. However, in giving its opinions, advice, recommendations and conclusions, Terragen Environmental Consultants Limited has considered pending changes to environmental legislation and regulations of which it is currently aware. Following delivery of this report, we will have no obligation to advise the Client of any such changes, or of their repercussions.
- h) Terragen Environmental Consultants Limited acknowledges that it is being retained, in part, because of its knowledge and experience with respect to environmental matters. Terragen Environmental Consultants Limited will consider and analyse all information provided to it in the context of our knowledge and experience and all other relevant information known to us. To the extent that the information provided to us is not inconsistent or incompatible therewith, Terragen Environmental Consultants Limited shall be entitled to rely upon and assume, without independent verification, the accuracy and completeness of such information.
- i) The content of this report represents the professional opinion of experienced environmental consultants. Terragen Environmental Consultants Limited does not provide specialist legal advice and the advice of lawyers may be required.
- j) In the Summary and Recommendations sections of this report, Terragen Environmental Consultants Limited has set out our key findings and provided a summary and overview of our advice, opinions and recommendations. However, other parts of this report will often indicate the limitations of the information obtained by Terragen Environmental Consultants Limited and therefore any advice, opinions or recommendations set out in the Executive Summary, Summary and Recommendations sections ought not to be relied upon unless they are considered in the context of the whole report.
- k) The lack of evidence of the presence of hazardous or harmful materials at the subject property does not guarantee the absence of such materials; rather it indicates only that none were found as a result of the services provided. The services described in this report were performed in accordance with the general practices and procedures accepted in the consulting field.



Appendix A Laboratory Test Reports.

Terragen Environmental Consultants Limited
The Ridings
4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

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

e: paul@tqen.co.uk

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

Analytical Report Number : 24-002288

Project / Site name:	Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)	Samples received on:	08/02/2024
Your job number:	TJ3994E01	Samples instructed on/ Analysis started on:	08/02/2024
Your order number:	TJ3994E01	Analysis completed by:	15/02/2024
Report Issue Number:	1	Report issued on:	20/02/2024
Samples Analysed:	4 soil samples		

Signed:



Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-002288

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)

Your Order No: TJ3994E01

Lab Sample Number					113352	113353	113354	113355
Sample Reference					FL/0802/01	FL/0802/02	FL/0802/03	FL/0802/04
Sample Number					None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)					None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled					08/02/2024	08/02/2024	08/02/2024	08/02/2024
Time Taken					None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	29	21	22	25
Total mass of sample received	kg	0.1	NONE	1.4	1.5	1.4	1.5

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.3	8.5	8.6	8.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	540	1600	580	520
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	450	1500	470	500
Water Soluble SO4 16hr extraction (2:1)	mg/l	1.25	MCERTS	227	732	233	248
Sulphide	mg/kg	1	MCERTS	230	150	200	180
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	0.9	0.9	0.8

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.18	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.17	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.14	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.07	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	< 0.85	< 0.85	< 0.85
-------------------	-------	------	------	--------	--------	--------	--------

Analytical Report Number: 24-002288

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)

Your Order No: TJ3994E01

Lab Sample Number	113352	113353	113354	113355
Sample Reference	FL/0802/01	FL/0802/02	FL/0802/03	FL/0802/04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/02/2024	08/02/2024	08/02/2024	08/02/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	3	< 1.0	3.4	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	16	19	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	47	220	62	46
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.4	1.3	1.7	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	3.1	1	1.2	2.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	48	43	57	46
Copper (aqua regia extractable)	mg/kg	1	MCERTS	36	34	38	31
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	20	21	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	< 0.25	0.34	0.33	< 0.25
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	46	44	55	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	86	70	110	85
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	84	85	95	80

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

Analytical Report Number : 24-002288

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
113352	FL/0802/01	None Supplied	None Supplied	Grey clay with gravel
113353	FL/0802/02	None Supplied	None Supplied	Grey clay with gravel
113354	FL/0802/03	None Supplied	None Supplied	Grey clay with gravel
113355	FL/0802/04	None Supplied	None Supplied	Grey clay with gravel

Analytical Report Number : 24-002288

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)

Water matrix abbreviations:

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

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

Analytical Report Number : 24-002288

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRLE)

Water matrix abbreviations:

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

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

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

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

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

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

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

Our Ref. TJ3994FR1

J. Reddington Limited
4 Elstree Way
Borehamwood
WD6 1RN

14th March 2024

FAO: Rob Welling

Ferry Island, Tottenham Hale (Plot B), 125-139 High Cross Road, London N17 9NU

Waste Classification Report

Please find attached the results of laboratory testing carried out on three samples of soil recovered from Ferry Island, Tottenham Hale (Plot B), 125-139 High Cross Road, London N17 9NU (the site) by a geo-environmental engineer from Terragen Environmental Consultants Limited (TGEN) on 04/03/2024. The samples represent made ground and natural ground (soil and stones) being generated from enabling works excavations and will be excess to requirements and need to be removed from site.

2.0 SITE DESCRIPTION

The Tottenham Hale Centre (THC) development consists of five different sites: Welbourne, North Island, Ferry Island, Ashley Road East, and Ashley Road West. Prior to 1864, Ferry Island (Plot B) was predominantly residential with a pumping station occupying the E boundary. By 1936, the residential properties in the SW had been developed into a single building and the pumping station was no longer present. During the 1970s and 80s the site was cleared, and a new road junction constructed, in the SE corner of the site. More recently and prior to the current development Ferry Island has been occupied by three commercial units including KFC, Pizza Hut, and Maplin, with associated car parking.

The proposed THC development essentially comprises the demolition of the existing structures and the construction of residential-led development with retail/business uses alongside; servicing, highways improvements and public amenity space including soft and hard landscaped areas creating an improved public realm.

We understand that as part of the development there will be a shallow reduced level excavation followed by placement of a pile mat, piling, pile cap excavations and a deep basement excavation, which will generate in total circa 26790m³ of material for disposal from site as waste. It is likely that circa 7170m³ (27%) of the arisings will be made ground, of which circa 2870m³ will be pile mat and hardstanding, and circa 19620m³ (73%) will be uncontaminated and inert natural soil and pile arisings.

The anticipated geology at the Ferry Island site comprises made ground overlying superficial deposits of Enfield Silt and River Terrace Deposits. The London Clay is at depth and in the order of 15m thick, underlain by the Lambeth Group, Thanet Sand and White Chalk.

Two site investigation reports have been prepared by Langan International (ref. 841011101 dated 26/07/2018 and 04/11/2021) on behalf of Whitby Wood, which comprised the progression of thirteen exploratory holes. The strata encountered confirmed the anticipated geology and comprised made ground, on average circa 1.7m thick, typically containing only a small quantity of deleterious materials, such as fragments of clinker and tarmac, with no visual or olfactory evidence of significant contamination. Asbestos containing material was not visible during the previous site investigations, but it was detected at low concentrations in three samples of made ground tested. Made ground overlies natural and uncontaminated (inert) Enfield Silt, Kempton Park Gravel, and London Clay.

During the previous investigations thirty-five samples were taken from the thirteen exploratory hole locations to depths of up to 6.2mbgl representing circa 26790m³ of enabling works excavations at the site.



3.0 SITE SAMPLING

A geo-environmental engineer from TGEN visited the site on 04/03/2024 to assess the nature of the strata encountered. This included:

- ✦ A physical description of the arisings in accordance with relevant AGS and BSI standards.
- ✦ An assessment of visual and olfactory evidence of contamination.
- ✦ The recovery of representative samples.
- ✦ The submission of samples to a UKAS/MCERTS accredited laboratory for analysis.

During the visit, routine reassurance samples of materials were recovered and included the following:

- ✦ Three samples of natural ground from foundation level excavations (FL) at Building 2.

4.0 MATERIALS ASSESSMENT

In accordance with the LoW (as amended), the CD&E arisings encountered during this sampling exercise are mirror entries with a mirror hazardous (MH) entry and a mirror non-hazardous (MN) entry as follows:

- ✦ Soil and stones containing dangerous substances (LoW Code 170503*) – MH.
- ✦ Soil and stones not containing dangerous substances (LoW Code 170504) - MN.

4.1 Physical Appearance of the Waste

Natural Ground at Foundation Level (FL) – Building 2

Sampling Date	Reference	Physical Description	Photograph
04/03/2024	FL/0403/01 FL/0403/02 FL/0403/03	Brown and dark grey, firm to stiff, slightly sandy, slightly silty clay (London Clay). There was no significant odour and the PID reading was <1ppm. No asbestos was seen during the sampling and there was no visual or olfactory evidence of contamination. Based on the physical description, the natural ground arisings could be described as: Soil and stones not containing dangerous substances (LoW Code 170504) - MN.	



4.2 Chemical Nature of the Waste

The samples were subjected to a programme of laboratory testing, which included an asbestos screen and a suite of potential contaminants associated with a wide range of potential activities to confirm the preliminary waste classification based on the physical description of the material sampled. The laboratory test reports are presented in Appendix A, which can be summarised as follows.

Natural Ground at Foundation Level (FL) – Building 2

Ref	Chemical Summary		Waste Classification
	Asbestos	Solid	LoW Code
FL/0403/01	NAD	No significant contamination	170504
FL/0403/02	NAD	No significant contamination	170504
FL/0403/03	NAD	No significant contamination	170504

NAD No asbestos observed during sample preparation or detected in the sample.

5.0 SUMMARY

No asbestos was observed during the sampling, and none was detected in the samples, which all returned low concentrations of potential contaminants. As such, the material represented by the samples (natural ground from foundation level) would be classified as:

Soil and stones not containing hazardous substances (LoW Code 170504).

The concentrations returned by the samples of made ground were not hazardous and as such, it is likely that the material represented by these samples would be suitable for acceptance and treatment at a typical soil and aggregates recycling facility (e.g., SR2010 No12).

The naturally occurring soils (London Clay) was free from visual and/or olfactory evidence or any suspicion of contamination, as confirmed by returning low concentrations of all potential contaminants and would be classified as soil and stones not containing hazardous substances (LoW Code 170504), suitable for disposal to an inert permitted landfill/facility without the need for testing. Furthermore, it is likely that the uncontaminated, naturally occurring arisings would be considered suitable for direct transfer to and reuse on a development site in line with a materials management plan in accordance with the CL:AIRE Definition of Waste: Development Industry Code of Practice (DoWCoP).

We would recommend that during any excavation associated with future phases of the development, should materials previously unidentified during the various investigations be encountered (e.g., an unusual appearance and/or odour etc.), works are halted in that area and the advice of a geo-environmental specialist be sought to determine an appropriate course of action. We would also advise you to employ routine waste practices when managing the disposal of the waste material (i.e. visual and olfactory inspections of all loads leaving the site) to ensure that the material remains consistent and suitable for recovery or disposal at your chosen facility in accordance with level 1, level 2 and level 3 waste acceptance procedures. Please be aware that your duty of care paperwork now needs to include the following:

-  The relevant UK SIC Code.
-  A declaration that you have fulfilled your duty to apply the waste hierarchy.
-  The relevant LoW Code.

We trust that this report meets your requirements, but please contact us should you require clarification on any of the matters raised. Thank you for your custom and we hope that we can be of further assistance to you in the future.

Paul Brewer
BSc (Hons), MSc, MI Soil Sci
Senior Environmental Consultant

(for and on behalf of Terragen Environmental Consultants Limited)

Dr. Barry Powell
BSc (Hons), PhD, MCIWM
Principal Consultant



WASTE CLASSIFICATION FRAMEWORK

One of the relevant objectives of the Revised Waste Framework (WFD) Directive (2018/851/EC) is to ensure that waste is recovered or disposed without endangering human health and without using processes or methods which could harm the environment, and without:

- ❏ Risk to water, air, soil, plants, or animals.
- ❏ Causing nuisance through noise or odours.
- ❏ Adversely affecting the countryside or places of special interest.

It also provides the general framework of waste management requirements and sets the basic EU waste management definitions. The List of Waste (LoW) Amendment Decision (2014/955/EU) establishes the classification system, including the distinction between hazardous and non-hazardous wastes. It is closely linked to the main characteristics that render waste hazardous as contained in Annex III of the WFD. The amendments came into force to align waste classification with relevant sections of and approaches used in EU chemicals regulations, such as REACH (1907/2006/EC) and the CLP (1272/2008/EC), which in turn adapt for the EU the UN globally harmonised system for chemicals classification. In 2020 and 2021, GB and the UK introduced its own set of waste classification regulations, such as the CLP, REACH and the mandatory classification and labelling list, which retain, mirror and/or replace relevant EU regulations.

Waste is not considered to be a substance, a mixture or an article. Consequently, obligations under the REACH and the CLP regulations do not apply for producers or holders of waste. Nevertheless, information generated in the frameworks of REACH and the CLP that set criteria for substances to be classified as hazardous are related to some of the hazardous properties applicable to the classification of waste. Annex VI of the CLP contains official harmonised classifications of substances, which must be used where the classification of waste depends on the presence of hazardous substances. The classification of substances is periodically updated by the European Chemicals Agency in the form of a new EU regulation, which automatically amends the CLP.

The Landfill Directive (1999/31/EC) defines the categories of waste applicable to landfill sites as hazardous, non-hazardous, municipal and inert. A landfill is defined as a waste disposal site for the deposit of waste onto or into land. Landfills are divided into three classes:

- ❏ Landfills for hazardous waste.
- ❏ Landfills for non-hazardous waste.
- ❏ Landfills for inert waste.

The three main categories of waste and the options for landfilling are as follows:

- ❏ Hazardous with or without additional treatment prior to landfill or stable non-reactive hazardous waste (SNRHW) suitable for placement in a dedicated cell in a suitably permitted non-hazardous landfill site.
- ❏ Non-hazardous.
- ❏ Inert and suitable for disposal to an appropriately permitted landfill site.

To determine the presence and significance of hazards associated with any construction, demolition and earthworks (CD&E) arisings and therefore the resultant options for management of the materials, and where necessary the appropriate class of facility the waste can be taken to, it is therefore necessary to:

- ❏ Determine the presence of hazardous properties within the materials.
- ❏ Determine the category of the waste.
- ❏ Determine if the waste meets the requirements for reuse onsite, recovery or recycling on or offsite, or disposal offsite as waste.

The main statutory guidance document used to properly classify waste as either hazardous or non-hazardous in the UK is Guidance on the Classification and Assessment of Waste (WM3). The stepped methodology for classifying a waste and assessing any hazardous properties is as follows:

- ❏ Check if the waste needs to be classified.
- ❏ Identify the code that may apply to the waste.
- ❏ Identify the assessment required to select the correct code.
- ❏ Determine the chemical composition of the waste.
- ❏ Determine if the substances in the waste are hazardous substances or persistent organic pollutants.
- ❏ Assess the hazardous properties of the waste.
- ❏ Assign and describe the classification code.



The waste types disposed to a landfill site permitted to accept inert waste or recovered at a site permitted or exempted in accordance with UK regulations and statutory guidance should be classified as inert. No hazardous or contaminated wastes, as defined in the Waste Acceptance Criteria (WAC) and Procedures Directive (2003/33/EC), should be accepted at such sites. The source and origin of the waste along with a description (e.g. physical form, consistency, composition, colour, odour and likely behaviour etc.) should be determined for all material accepted at such inert waste facilities. The materials should be stable, non-reactive and with a sufficient bearing capacity for the end use.

In accordance with the Landfill Directive and UK statutory guidance, the only materials allowed for disposal or recovery at such inert waste facilities without more detailed information (e.g. chemical analyses, site investigation data etc.) should be restricted to single source material from a known site and a reliable producer. The material from the site or source should not be contaminated and should not contain significant quantities of deleterious materials such as wood, plastic etc. Materials potentially suitable for recovery at such inert waste facilities without laboratory analysis should be restricted to the following:

LoW Code	Description	Restrictions
170101	Concrete	Selected CD&E waste only
170102	Bricks	Selected CD&E waste only
170103	Tiles & Ceramics	Selected CD&E waste only
170107	Mixture of Concrete, Bricks, Tiles & Ceramics	Selected CD&E waste only
170504	Soil & Stones (e.g. natural clay & sand etc.)	Selected CD&E waste not from contaminated sites*
200202	Soil & Stones (e.g. natural clay & sand etc.)	Selected garden & park waste only*

- *Excluding topsoil or peat when used as subsoil or fill.
- Selected CD&E or garden & park waste with low (non-significant) contents of other types of materials (i.e. metals, plastics, organics, wood, rubber etc.). The origin of the waste must be known and relevant information regarding the waste must have been assessed.
- No CD&E waste from buildings or land contaminated with dangerous substances (e.g. 170106 & 170503).
- No CD&E waste from buildings treated or painted with dangerous substances in significant amounts.
- These materials should only be accepted if they arise from a single identified source.
- Mixtures of different types of these wastes from the same single source are acceptable without testing.
- Mixtures of these wastes from different sources are not acceptable unless pre-testing is carried out.

If the waste materials were determined as hazardous or potentially inert and required disposal to landfill, then a further stage of assessment would be required to determine if the waste meets the requirements for disposal at a particular category of landfill facility. This is done in the form of WAC testing. It should be noted that the associated regulations and statutory guidance do not apply to the use of suitable uncontaminated waste for redevelopment, restoration and filling in work or for construction purposes, or for recovery activities.



LIMITATIONS AND USE OF THE REPORT

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations or conclusions set out in this report.

- a) This report has been prepared for the purpose of providing interpretation on analytical results supplied by the Client pursuant to its appointment of Terragen Environmental Consultants Limited to act as a Consultant.
- b) These comments are given in good faith on the basis of the results provided. Terragen Environmental Consultants Limited can bear no responsibility for any inaccuracies that may arise from the laboratory testing.
- c) This report does not constitute a qualitative risk assessment of the site or the soils and is not based upon a conceptual site model as we have been provided with insufficient information to establish the existence of potential sources of contamination, plausible pathways, or sensitive receptors and therefore assumes that they exist.
- d) The report is unable to comment on the potential risks to controlled waters (groundwater or surface water), although where contaminant concentrations are below relevant threshold criteria in most circumstances it may be considered that the risk is low.
- e) We have assumed that the results are representative of the area sampled. This does not imply that they may be considered representative of the site itself. Terragen Environmental Consultants Limited can accept no responsibility for the integrity of the sampling regime.
- f) Save for the Client no duty is undertaken or warranty or representation made to any party in respect of the opinions, advice, recommendations or conclusions herein set out.
- g) All work carried out in preparing this report has used, and is based upon, our professional knowledge and understanding of the current relevant English and European Community standards, approved codes of practice, technology and legislation.
Changes in the above may cause the opinion, advice, recommendations or conclusions set out in this report to become inappropriate or incorrect. However, in giving its opinions, advice, recommendations and conclusions, Terragen Environmental Consultants Limited has considered pending changes to environmental legislation and regulations of which it is currently aware. Following delivery of this report, we will have no obligation to advise the Client of any such changes, or of their repercussions.
- h) Terragen Environmental Consultants Limited acknowledges that it is being retained, in part, because of its knowledge and experience with respect to environmental matters. Terragen Environmental Consultants Limited will consider and analyse all information provided to it in the context of our knowledge and experience and all other relevant information known to us. To the extent that the information provided to us is not inconsistent or incompatible therewith, Terragen Environmental Consultants Limited shall be entitled to rely upon and assume, without independent verification, the accuracy and completeness of such information.
- i) The content of this report represents the professional opinion of experienced environmental consultants. Terragen Environmental Consultants Limited does not provide specialist legal advice and the advice of lawyers may be required.
- j) In the Summary and Recommendations sections of this report, Terragen Environmental Consultants Limited has set out our key findings and provided a summary and overview of our advice, opinions and recommendations. However, other parts of this report will often indicate the limitations of the information obtained by Terragen Environmental Consultants Limited and therefore any advice, opinions or recommendations set out in the Executive Summary, Summary and Recommendations sections ought not to be relied upon unless they are considered in the context of the whole report.
- k) The lack of evidence of the presence of hazardous or harmful materials at the subject property does not guarantee the absence of such materials; rather it indicates only that none were found as a result of the services provided. The services described in this report were performed in accordance with the general practices and procedures accepted in the consulting field.



Appendix A Laboratory Test Reports.

Terragen Environmental Consultants Limited
The Ridings
4 Village Close
Sherington
Buckinghamshire
MK16 9PZ

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

e: paul@tgen.co.uk

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

Analytical Report Number : 24-006611

Project / Site name:	Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL)	Samples received on:	04/03/2024
Your job number:	TJ3994F01	Samples instructed on/ Analysis started on:	04/03/2024
Your order number:	TJ3994F01	Analysis completed by:	08/03/2024
Report Issue Number:	1	Report issued on:	10/03/2024
Samples Analysed:	3 soil samples		



Signed:

Joanna Szwagrak
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-006611

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL

Your Order No: TJ3994F01

Lab Sample Number	133637	133638	133639
Sample Reference	FL/0403/01	FL/0403/02	FL/0403/03
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	04/03/2024	04/03/2024	04/03/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	23	25	23
Total mass of sample received	kg	0.1	NONE	1	1	0.9

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	10	9.9	10.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	1900	2100	2200
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1500	1800	1700
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	749	899	855
Sulphide	mg/kg	1	MCERTS	120	110	92
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.8	0.8	0.7

Total Phenols

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

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.07	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.07	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.19	0.67	0.25
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.14	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.27	0.66	0.3
Pyrene	mg/kg	0.05	MCERTS	0.24	0.57	0.26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.08	0.2	0.11
Chrysene	mg/kg	0.05	MCERTS	0.1	0.24	0.1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.1	0.26	0.11
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.09	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.08	0.2	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.1	< 0.05
Dibenzo(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.11	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	1.05	3.38	1.12
-------------------	-------	------	------	------	------	------

Analytical Report Number: 24-006611

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL

Your Order No: TJ3994F01

Lab Sample Number	133637	133638	133639
Sample Reference	FL/0403/01	FL/0403/02	FL/0403/03
Sample Number	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied
Date Sampled	04/03/2024	04/03/2024	04/03/2024
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	2.8	3	3.9
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	15	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	66	65	61
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.3	1.2	1
Boron (water soluble)	mg/kg	0.2	MCERTS	2.6	2.8	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	41	40	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	35	28
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	25	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.44	0.95	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	36	39	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	1.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	73	72	57
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	81	80	66

Petroleum Hydrocarbons

TPH (C10 - C40) EH_CU_1D_TOTAL_#1_#2	mg/kg	10	MCERTS	49	13	21
--------------------------------------	-------	----	--------	----	----	----

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



Analytical Report Number : 24-006611
Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL)

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
133637	FL/0403/01	None Supplied	None Supplied	Brown clay
133638	FL/0403/02	None Supplied	None Supplied	Brown clay
133639	FL/0403/03	None Supplied	None Supplied	Brown clay

Analytical Report Number : 24-006611

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL)

Water matrix abbreviations:

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

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

Analytical Report Number : 24-006611

Project / Site name: Ferry Island, Tottenham Hale (Plot B), High Cross Road, London N17 9NU (JRL)

Water matrix abbreviations:

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

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

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

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

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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



Appendix L

Waste Carrier Licenses.

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

JRL Environmental Limited

Registered as

An upper tier waste carrier, broker and dealer

Registration number

CBDU86520

4

Address of place of business

Elstree Way
Borehamwood
WD6 1RN

Telephone number

07500 661 748

Date of registration

4 January 2022

Expiry date of

registration (unless
revoked)

4 February 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.

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

JRL ENVIRONMENTAL LIMITED

Registered as

An upper tier waste carrier, broker and dealer

Registration number

CBDU569104

Address of place of business

Jrl Environmental
4 Elstree Way
Borehamwood
WD61RN

Date of registration

5 February 2025

Expiry date of registration (unless revoked)

5 February 2028

This certificate was created on 5 February 2025. These details are correct at the time of certificate generation.

This copy has been issued under Regulation 6 of Waste (England and Wales) Amendment Act 2014 by the Environment Agency. This is copy number 1 of the certificate.

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.



Appendix M

Selection of Waste Transfer Notes (WTN).

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - LAND AND WATER
Land and Water, Marshes Cold Harbour Lane
Marshes Cold Harbour Lane
RM13 9YQ

Waste Code:

Issued By:

Ticket No: 1100300520

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: NK22ZYZ
Driver: VADIM NICORICI
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 649769
Site Name: Land and Water, Marshes
Cold Harbour Lane
Date: 22/09/2022
Time on Site: 13:39
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - FCCCRICK

FCC - CRICKLEWOOD
400 CRICKLEWOOD RAILWAY YARD
REAR OF 400 EDGWARE ROAD
CRICKLEWOOD
NW2 6ND

Waste Code:

Issued By:

Ticket No: 1100302811

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: KU68GJG

Driver: BYRON CARTY

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 655710

Site Name: FCC - CRICKLEWOOD

Date: 29/09/2022

Time on Site:

Time off Site:

Customer Order Ref:

Product: NHMA

NON HAZ MUCK AWAY

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - GRSTYTT

GRS TARMAC TYTTENHANGER
LARFARGE AGGREGATES LIMITED
TYTTENHANGER LANDFILL
COURSERS ROAD
AL4 0PF

Waste Code:

Issued By:

Ticket No: 1100303286

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: KU69XRX

Driver: ADRIAN HASAS

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 643189

Site Name: GRS TARMAC
TYTTENHANGER

Date: 29/09/2022

Time on Site:

Time off Site:

Customer Order Ref:

Product: SAS

SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - KELTBRAV,
SILVERTOWN

KELTBRAV - SILVERTOWN
THAMES WHARF-WASTE IN
THAMES WHARF
DOCK ROAD
E16 2AF

Waste Code:

Issued By:

Ticket No: 1100308787

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GD22AYF
Driver: BOGDAN TITA
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: JREDDI/FI003
Site Name: KELTBRAV -
SILVERTOWN
Date: 13/10/2022
Time on Site: 12:21
Time off Site:
Customer Order Ref:

Product: HS
HAZARDOUS SOILS

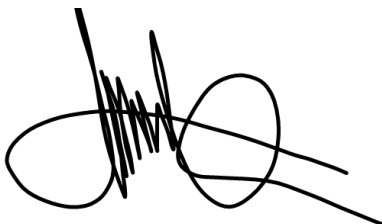
EWC: 170503

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - KELTBRAV,
SILVERTOWN

KELTBRAV - SILVERTOWN
THAMES WHARF-WASTE IN
THAMES WHARF
DOCK ROAD
E16 2AF

Waste Code:

Issued By:

Ticket No: 1100308788

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GD22AYJ
Driver: MICHAEL SOUTHION
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: JREDDI/FI002
Site Name: KELTBRAV -
SILVERTOWN
Date: 13/10/2022
Time on Site: 13:10
Time off Site:
Customer Order Ref:

Product: HS
HAZARDOUS SOILS

EWC: 170503

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: JRLSILVPO
SILVERTOWN - PRODUCT OUT
JRL ENVIRONMENTAL
KNIGHTS ROAD
SILVERTOWN

Waste Code:
Issued By:

Ticket No: 1100313203

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: KU68GGJ
Driver: SILVIU
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 646401
Site Name: SILVERTOWN -
PRODUCT OUT
Date: 27/10/2022
Time on Site:
Time off Site:
Customer Order Ref:

Product: SM
SCREENABLE MATERIAL

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - FCCBOW

FCC - BOW
MARSHGATE SIDINGS
PUDDING MILL LANE
BOW
E15 2PJ

Waste Code:

Issued By:

Ticket No: 1100317276

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GN22YVR
Driver: RAZVAN LUPASCU
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 651747

Site Name: FCC - BOW

Date: 08/11/2022

Time on Site: 16:01

Time off Site:

Customer Order Ref:

Product: NHMA
NON HAZ MUCK AWAY

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - LAND AND WATER
Land and Water, Marshes Cold Harbour Lane
Marshes Cold Harbour Lane
RM13 9YQ

Waste Code:

Issued By:

Ticket No: 1100328361

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: KU68GJY
Driver: CARL KIRBY
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 651705
Site Name: Land and Water, Marshes
Cold Harbour Lane
Date: 09/12/2022
Time on Site: 15:41
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

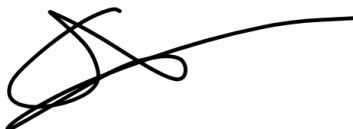
EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - FCCBOW

FCC - BOW
MARSHGATE SIDINGS
PUDDING MILL LANE
BOW
E15 2PJ

Waste Code:

Issued By:

Ticket No: 1100328985

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: KU68GJK

Driver: Eddy Xhele

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 637869

Site Name: FCC - BOW

Date: 12/12/2022

Time on Site: 13:04

Time off Site:

Customer Order Ref:

Product: NHMA

NON HAZ MUCK AWAY

EWC: 170504

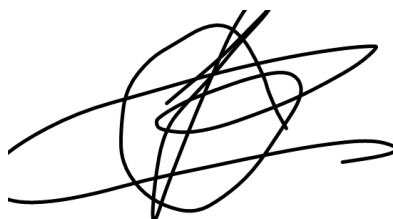
Unit Of Sale: LOAD

Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - BRETTS EH,
RAINHAM

BRETTS - EAST HALL FARM
BRETT AGGREGATES LTD
EAST HALL FARM INERT LANDFILL
NEW ROAD, WENNINGTON
RM13 9DS

Waste Code:

Issued By:

Ticket No: 1100330064

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: EY20YMZ
Driver: Dumitru Minalache
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 642372
Site Name: BRETTS - EAST HALL
FARM
Date: 15/12/2022
Time on Site: 12:23
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: 001 - TML ROMFORD

Thames Material Ltd, Central Park, Wood Lane,
Dagenham, RM8 1EG
Central Park, Wood Lane
RM8 1EG

Waste Code:

Issued By:

Ticket No: 1100330568

Customer Account: JRL001

J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: GD22AYH

Driver: LEE MARSH

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 641292

Site Name: Thames Material Ltd,
Central Park, Wood Lane,
Dagenham, RM8 1EG

Date: 16/12/2022

Time on Site:

Time off Site:

Customer Order Ref:

Product: SAS

SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: 001 - TML ROMFORD

Thames Material Ltd, Central Park, Wood Lane,
Dagenham, RM8 1EG
Central Park, Wood Lane
RM8 1EG

Waste Code:

Issued By:

Ticket No: 1100330574

Customer Account: JRL001

J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: KU69WZD

Driver: Juan Carlos Duarte
Velandia

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 640934

Site Name: Thames Material Ltd,
Central Park, Wood Lane,
Dagenham, RM8 1EG

Date: 16/12/2022

Time on Site:

Time off Site:

Customer Order Ref:

Product: SAS

SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - BRETTS EH,
RAINHAM

BRETTS - EAST HALL FARM
BRETT AGGREGATES LTD
EAST HALL FARM INERT LANDFILL
NEW ROAD, WENNINGTON
RM13 9DS

Waste Code:

Issued By:

Ticket No: 1100337420

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: NJ22AUK
Driver: SILVIU DINU
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 624603
Site Name: BRETTS - EAST HALL
FARM
Date: 20/01/2023
Time on Site:
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: RMS PERRY RD
RMS Perry Rd
Perry Rd
RM9 6LE

Waste Code:

Issued By:

Ticket No: 1100408789

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: EY20YMZ
Driver: Ciprian Demsa
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

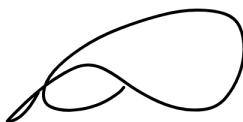
Waste Carrier ID: CBDU569104
Incoming Ref No: 643170
Site Name: RMS Perry Rd
Date: 23/10/2023
Time on Site: 09:33
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - LAND AND WATER
Land and Water, Marshes Cold Harbour Lane
Marshes Cold Harbour Lane
RM13 9YQ

Waste Code:

Issued By:

Ticket No: 1100408794

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GN22YXT
Driver: JAKE MITCHELL
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 636128
Site Name: Land and Water, Marshes
Cold Harbour Lane
Date: 23/10/2023
Time on Site: 09:49
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

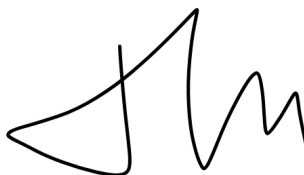
EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: 001 - BRETTS LL,
RAINHAM
BRETTS RAINHAM - WASTE IN
LAUNDERS LANE
RAINHAM
RM13 9GF

Waste Code:
Issued By:

Ticket No: 1100413735

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GK73AAJ
Driver: Ciprian Demsa
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 667306
Site Name: BRETTS RAINHAM -
WASTE IN
Date: 09/11/2023
Time on Site: 13:53
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature

A handwritten signature in black ink, consisting of a series of loops and curves.

Site Representative

A handwritten signature in black ink, featuring a large initial 'D' followed by several loops and a trailing 'm'.

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: 001 - BRETTSQM
BRETTS - QUEEN MARY
QUEEN MARY RESERVOIR RECYCLING FACILITY
ASHFORD ROAD
LALEHAM
TW18 1QF

Waste Code:

Issued By:

Ticket No: 1100413740

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GN73ZVP
Driver: MARTIN FITZSIMMONS
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 638974
Site Name: BRETTS - QUEEN MARY
Date: 09/11/2023
Time on Site:
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: RMS PERRY RD
RMS Perry Rd
Perry Rd
RM9 6LE

Waste Code:

Issued By:

Ticket No: 1100413764

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: EY20YMZ
Driver: Lee Lindsay
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 643295
Site Name: RMS Perry Rd
Date: 09/11/2023
Time on Site: 16:11
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - BRETTSQM
BRETTS - QUEEN MARY
QUEEN MARY RESERVOIR RECYCLING FACILITY
ASHFORD ROAD
LALEHAM
TW18 1QF

Waste Code:

Issued By:

Ticket No: 1100414427

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: KU69WZD
Driver: SHANE REDDY
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 633605
Site Name: BRETTS - QUEEN MARY
Date: 13/11/2023
Time on Site:
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - GRSTYTT

GRS TARMAC TYTTENHANGER
LARFARGE AGGREGATES LIMITED
TYTTENHANGER LANDFILL
COURSERS ROAD
AL4 0PF

Waste Code:

Issued By:

Ticket No: 1100417262

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12

SITE PREPARATION

Vehicle Reg: GN73ZVO

Driver: CLAUDIU BOLOCAN

Haulier: JRL002

JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104

Incoming Ref No: 625224

Site Name: GRS TARMAC
TYTTENHANGER

Date: 22/11/2023

Time on Site: 09:10

Time off Site:

Customer Order Ref:

Product: SAS

SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD

Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE

Outlet Details: 001 - BRETTS LL,
RAINHAM

BRETTS RAINHAM - WASTE IN
LAUNDERS LANE
RAINHAM
RM13 9GF

Waste Code:

Issued By:

Ticket No: 1100422253

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GD23MHO
Driver: Dumitru Minalache
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 40112
Site Name: BRETTS RAINHAM -
WASTE IN
Date: 12/12/2023
Time on Site: 15:44
Time off Site:
Customer Order Ref:

Product: BALLAST
BALLAST

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Customer Signature



Site Representative



Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: JRLSILVI

JRL Silver Town waste INCOMING
JRL ENVIRONMENTAL
KNIGHTS ROAD
SILVERTOWN
E16 2AT

Waste Code:

Issued By:

Ticket No: 1100434483

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219

20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GN22YXP
Driver: Daniel Dalton
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 614579
Site Name: JRL Silver Town waste
INCOMING
Date: 01/03/2024
Time on Site:
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

**COMBINED CONVEYANCE NOTE
& WASTE TRANSFER NOTE**

Outlet Details: 001 - BRETTS EH,
RAINHAM

BRETTS - EAST HALL FARM
BRETT AGGREGATES LTD
EAST HALL FARM INERT LANDFILL
NEW ROAD, WENNINGTON
RM13 9DS

Waste Code:

Issued By:

Ticket No: 1100434493

Customer Account: JRL001
J REDDINGTON LTD

Tip / Origin Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Vehicle Reg: GN22YVS
Driver: Bogdan Buta
Haulier: JRL002
JRL ENVIRONMENTAL LIMITED
4 ELSTREE WAY
BOREHAMWOOD
WD6 1RN

Waste Carrier ID: CBDU569104
Incoming Ref No: 653606
Site Name: BRETTS - EAST HALL
FARM
Date: 01/03/2024
Time on Site:
Time off Site:
Customer Order Ref:

Product: SAS
SOIL AND STONE

EWC: 170504

Unit Of Sale: LOAD
Qty: 1.000

Company Details:

JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN

Tel: 020 8953 7800

The waste hierarchy has been considered deciding the
most appropriate waste management option.

SKIP TICKET

Outlet Details: JRLSK
JRL Environmental Ltd

Ticket No: 1100470386

Type: WaitNLoad

Customer Account: JRL001
J REDDINGTON LTD

Site Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Tip Outlet: 001 - SRC - BARKING
JRL Environmental Ltd
SEWELLS RESERVOIR CONSTRUCTION LTD
BARKING RIVERSIDE RECYCLING CENTRE
CHOATS ROAD
IG11 0YN

Waste Code: EPR/HB3109CX
Issued By: EA

Vehicle Reg: GN72ZMX

Driver:

Date: 08/10/2024

Time on Site:

Time off Site:

Customer Order Ref:

Product: GRAB
GRAB Load

Waste Type: SASG
SOIL AND STONE - GRAB

EWC: 170504

Net Weight: 15060.00

Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.

SKIP TICKET

Outlet Details: JRLSK
JRL Environmental Ltd

Ticket No: 1100488068

Type: Exchange

Customer Account: JRE014
J REDDINGTON LTD

Site Address: 1219
20A00101 - FERRY ISLAND
FERRY ISLAND
TOTTENHAM HALE
STATION ROAD
N17 9FR

SIC Code: 43.12
SITE PREPARATION

Tip Outlet: 001 - SRC - BARKING
JRL Environmental Ltd
SEWELLS RESERVOIR CONSTRUCTION LTD
BARKING RIVERSIDE RECYCLING CENTRE
CHOATS ROAD
IG11 0YN

Waste Code: EPR/HB3109CX
Issued By: EA

Vehicle Reg: GN22ZHF
Driver: ADI CONTU
Date: 03/03/2025
Time on Site: 10:43
Time off Site: 10:43
Customer Order Ref:

Product: 8YDO
8 Yard Open

Waste Type: SM
SCREENABLE MATERIAL

EWC: 170101

Net Weight: 7000.00

Customer Signature



Site Representative



Company Details:
JRL Environmental Ltd 4 Elstree Way
Borehamwood, Hertfordshire
WD6 1RN
Tel: 020 8953 7800

The waste hierarchy has been considered deciding the most appropriate waste management option.



Appendix N Consignment Notes.

Waste Soil Movement Sheet



Consignor's/Carrier's/Consignee's Copy (Delete as Appropriate)

Part A Notification details

1 Consignment note code:

J R E D D I / F I 0 0 2

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

J. Reddington Ltd.,
Tottenham Hale, Ferry Island, London, N17 9NU

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

Keltbray Environmental Ltd.,
Mohawk Wharf, Bradfield Road, Silvertown, London, E16 2AX

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

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Development of building projects 2 SIC for the process giving rise to the waste

4 1 1 0 0

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)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170503		20,000	See Report: P450040, 18-80546	SOLID	HP7, HP14

Part C Carrier's details

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

1. Carrier Name:

On behalf of JRL Environmental Ltd.,
4 Elstree Way, Borehamwood, Herts, WD6 1RN

2. Carrier registration no./reason for exemption:
CBDU86520

3. Vehicle Registration No. (or mode of transport, if not road):

90 22 AYJ

Signature

Date 13/10/2022 Time 0800

0920

Part D Consignor's details

I certify that the information in A, B and C above 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 & Wales) regulations 2011

1. Consignor Name:

On behalf of J. Reddington Ltd.,
4 Elstree Way, Borehamwood, Herts, WD6 1RN

Signature

Date 13/10/2022 Time 0940

Part E Consignee's details (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 (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503	12.100	accepted	R5

1. I received this waste at the address given in A4 on:

Date 13/10/2022 Time 1100

2. Vehicle Registration No. (or mode of transport if not road):

G022AYJ

Name:

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

Keltbray Environmental Ltd.,
St Andrews House, Portsmouth Road, Esher, Surrey, KT10 9TA

Signature

Date 13/10/2022 Time 1100

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

EA/EPR/FP3092LH

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

Waste Soil Movement Sheet

Consignor's/Carrier's/Consignee's Copy (Delete as Appropriate)

Part A Notification details

1 Consignment note code: J R E D D I / F I 0 0 3

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

J. Reddington Ltd.,
Tottenham Hale, Ferry Island, London, N17 9NU

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

Keltbray Environmental Ltd.,
Mohawk Wharf, Bradfield Road, Silvertown, London, E16 2AX

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

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Development of building projects 2 SIC for the process giving rise to the waste 41100

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)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170503		20,000	See Report: P450040, 18-80546	SOLID	HP7, HP14

Part C Carrier's details

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

1. Carrier Name:
On behalf of JRL Environmental Ltd.,
4 Elstree Way, Borehamwood, Herts, WD6 1RN

2. Carrier registration no./reason for exemption:
CBDU86520

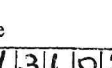
3. Vehicle Registration No. (or mode of transport, if not road):

Signature: 
Date: 13/10/2022 Time: 11:40

Part D Consignor's details

I certify that the information in A, B and C above 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 & Wales) regulations 2011

1. Consignor Name:
On behalf of J. Reddington Ltd.,
4 Elstree Way, Borehamwood, Herts, WD6 1RN

Signature: 
Date: 13/10/2022 Time: 11:40

Part E Consignee's details (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 (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503	18380	accepted	R5

1. I received this waste at the address given in A4 on: Date: 13/10/2022 Time: 11:21

2. Vehicle Registration No. (or mode of transport if not road):

LD22 AYF

Name: Adam

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

Keltbray Environmental Ltd.,
St Andrews House, Portsmouth Road, Esher, Surrey, KT10 9TA

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

EA/EPR/FP3092LH

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

Signature: 
Date: 13/10/2022 Time: 11:21



Appendix O

Environmental Permits (Disposal Facilities).

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sewells Reservoir Construction Limited

Barking Riverside Recycling Centre
Choats Road
Barking
Essex
RM9 6RJ

Permit number

EPR/HB3109CX

Barking Riverside Recycling Centre

Permit number EPR/HB3109CX

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit allows for the reception, transfer, storage and processing of non-hazardous and inert waste for recovery. Material is transported to site, weighed and tipped into the sorting area prior to being sorted and graded and moved to the relevant storage area. Treatment activities include sorting, separating, screening, crushing and blending into different components for recovery of wastes. The annual tonnage throughput will not exceed 500,000 tonnes of waste.

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

Status log of the permit		
Description	Date	Comments
Application EPR/HB3109CX/A001	Duly made 26/03/2019	Application for physical treatment facility.
Additional information received	16/09/2019	Schedule 5 response with approved Dust and Emissions Management Plan and answers to GWCL questions.
Permit determined EPR/HB3109CX	02/10/2019	Permit issued to Sewells Reservoir Construction Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/HB3109CX

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Sewells Reservoir Construction Limited ("the operator"),

whose registered office is

Lodge B Highwood Quarry

Little Canfield

Great Dummow

Essex

CM6 1SL

company registration number **02349942**

to operate waste operations at

Barking Riverside Recycling Centre

Choats Road

Barking

Essex

RM9 6RJ

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Derek Franklin	02/10/2019

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.1.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2 Odour

- 3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour. .
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.3 Noise and vibration

- 3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Monitoring

- 3.4.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) ambient air monitoring specified in table S3.7;
- 3.4.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and

- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities	
Description of activities for waste operations	Limits of activities
R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes) R5: Recycling/reclamation of other inorganic materials 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) D9: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 D14: Repackaging prior to submission to any of the operations numbered D1 to D13 D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Treatment of wastes listed in Table S2.1 consisting only of sorting, separation, screening and crushing of waste for disposal (no more than 50 tonnes per day) and for recovery as a soil, soil substitute or aggregate. Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. The capacity of the site for non hazardous waste subject to an R3 activity (Biological treatment only) shall not exceed 75 tonnes per day. No more than 50 tonnes per day of non hazardous waste to be treated at the site under a D9 activity.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 Notices dated 28/05/2019, 11/07/2019 and 28/08/2019	Approved Dust and Emissions Management Plan consisting of the following documents:	
	SRCL-CR-DMP-01 Dust & Emission Management Plan EMS-OP-02, Version 4	03/09/2019 16/09/2019

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IP1	The operator shall submit a written report to the Environment Agency for approval. The report shall contain a review of the results of the particulate/dust monitoring specified in the permit and the effectiveness of the site's particulate/dust monitoring strategy. The report shall include further measures to be undertaken to reduce particulate emissions at the facility, if necessary and dates for implementation. The actions and outcomes of the report shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to any such amendments or additions as notified by the Environment Agency.	To be completed 12 months from permit issue

Schedule 2 – Waste types

Table S2.1 Permitted waste types and quantities for Physical Treatment of Non-Hazardous Waste

Exclusions	
Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dusts, powders or loose fibres • Hazardous wastes • Wastes in liquid form	
Maximum quantity	The total quantity of waste accepted at the site for the above activity shall be less than 500,000 tonnes a year.
Waste code	Description
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 02	glass
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
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
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 02	Soil and stones

Schedule 3 – Emissions and monitoring

Table S3.7 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In accordance with the Dust and Emissions management plan (Version 4, September 2019) section 4 or as agreed in writing with the Environment Agency.	Particulate matter PM ₁₀	Continuous	In accordance with the Dust and Emissions management plan (Version 4, September 2019) section 4 or as agreed in writing with the Environment Agency.	---

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Ambient air monitoring Parameters as required by condition 3.4.1	As specified in schedule 3 table S3.7	[note 1]	[note 1]
Note 1 – An annual review must be carried out 12 months after the date the permit was issued. The results of the annual review shall be submitted to the Environment Agency. Any changes or improvements to the ambient monitoring shall be approved by the Environment Agency and shall be implemented by the operator from the date of approval in writing by the Environment Agency.			

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“PM₁₀” Suspended particles of diameter up to 10 µm

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table S2.1 for that table they have the meaning given below:

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“PCBs” means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

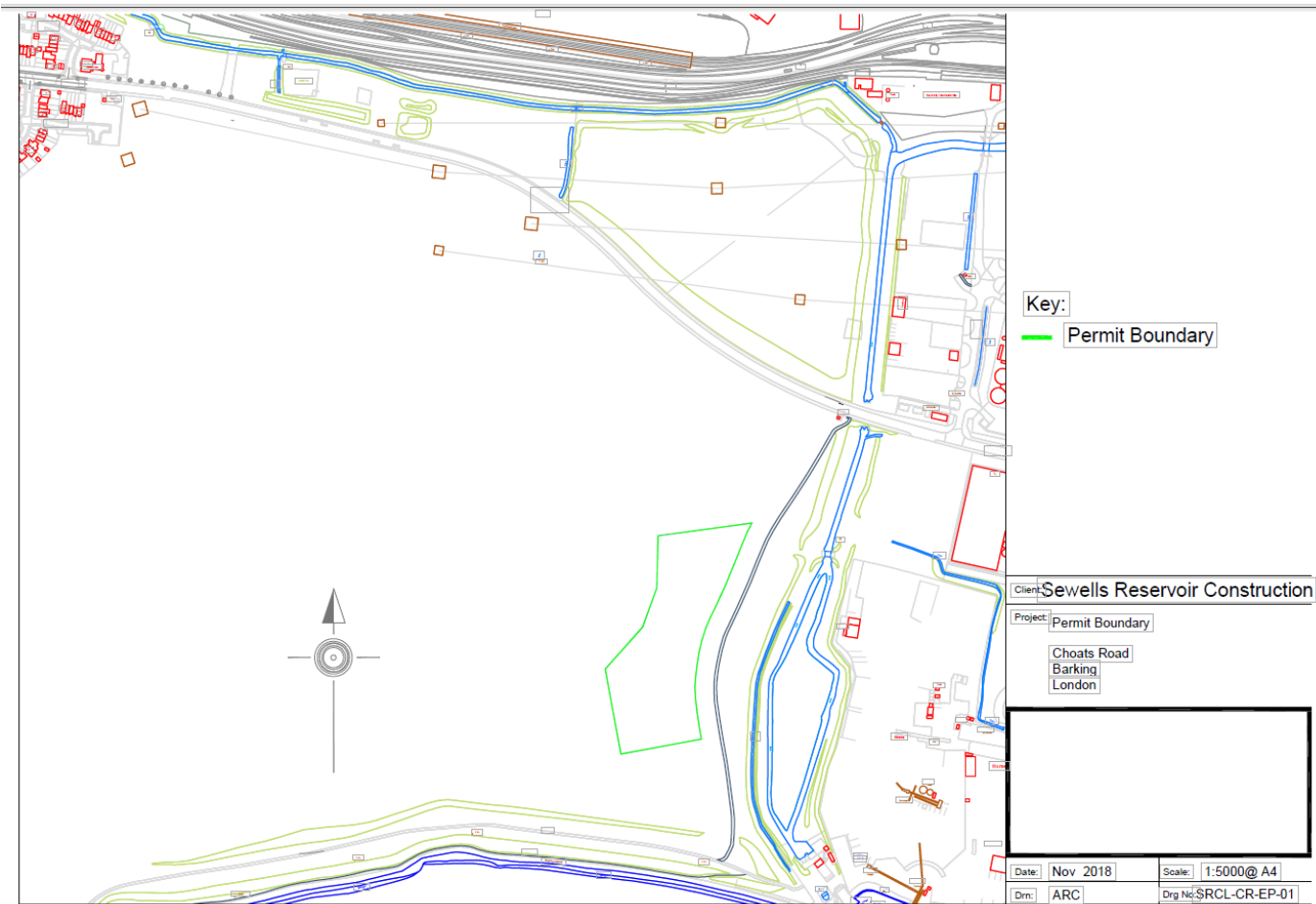
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste.

“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste.

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan



©Crown Copyright. All rights reserved. Environment Agency, 100024198, 2019.

END OF PERMIT

The Company Director and/or Secretary
Hanson Quarry Products Europe Limited
Hanson House
14 Castle Hill
Maidenhead
SL6 4JJ

Our ref: EPR/BB3005TG/A001

Date: 10 March 2015

Dear Sir and/or Madam,

Your new environmental permit

Permit reference: EPR/BB3005TG/A001

Waste returns reference: EAWML 401033

Operator: Hanson Quarry Products Europe Limited

Facility: Dagenham Dock Aggregate Recycling Facility, Land On Breach Lane,
Dagenham, London, RM9 6QD

Our determination of your application for a permit is complete. We're satisfied that you can carry out your activities in accordance with the enclosed permit, without harm to the environment or human health. Please keep the permit in a safe place.

This letter contains web links to other documents. If you aren't able to access these phone our Customer Contact Centre for help on 03708 506 506.

Please look at the table below and note any of the things that apply to your permit.

If...	then..
you plan to keep your records at a site other than where the activity takes place	you need to let us know within 20 working days of receiving this letter.
your permit includes pre-operational or improvement conditions	check the deadlines for completing measures and make sure you carry them out by the times stated.
your permit includes standard rules	we've enclosed the rules set/s. We may change these in future but will let you know about any changes. You must make sure you're always following the latest rules set.
you're carrying out a waste operation or activity and need to submit quarterly waste returns on waste movements Note: This does not apply to permits that only have stand alone water discharge or groundwater activities.	you can get the forms you need from our website https://www.gov.uk/government/collections/national-operator-waste-returns When you complete your return use the waste returns reference above.
your permit includes an installation	we enclose a legal notice and information about reporting to the Pollution Inventory.
you need to submit other returns	send these to your area office. Speak to your area officer to check local arrangements.

You need to read our document **How to comply with your environmental permit** as this will help you understand how to meet the conditions of the permit. You can find this on our website at <https://www.gov.uk/government/publications/how-to-comply-with-your-environmental-permit>

A local regulatory officer will visit you to assess compliance with your permit conditions.

There is an annual subsistence charge for your permit unless:

- your permit is only for discharges of sewage effluent where the maximum daily volume of discharge permitted is five cubic metres or less (this does not apply to trade effluent or any other type of discharge)
- or your permit is only for mobile plant, instead we will charge for each deployment.

The annual charge is due on demand in the year that we issue the permit and then on 1 April each year. The charge starts from the date we authorise the permit, unless there's a condition relating to a standalone water discharge which states a later start date. In that case we will charge for the discharge from the start date. If you need to know more about the subsistence charge please look at the charging guidance on our website at <https://www.gov.uk/government/publications/environmental-permitting-ep-charges-scheme-april-2014-to-march-2015>

Rights of appeal

If you're not happy with any permit condition that has been imposed by the permit you may appeal to the Secretary of State. You must make your appeal no later than six months after the permit issue date. Further information about making an appeal and the forms you will need are available from the Planning Inspectorate website or from the contact details below.

Environment Appeals, Enforcement and Specialist case work division, The Planning Inspectorate, 3/25 Hawk Wing, Temple Quay House, 2 The Square, Temple Quay, Bristol, BS1 6PN. Phone: 0303 444 5584

Email: environment.appeals@pins.gsi.gov.uk

You must send written notice of the appeal and the documents listed below to the Secretary of State at the Planning Inspectorate address above. At the same time you must send us a copy of the notice and documents to

Victoria Balmer, Appeals Coordinator, Environment Agency, National Permitting Service, Knutsford Road, Latchford, Warrington, WA4 1HG.

Phone: 01925 542456 Email : victoria.balmer@environment-agency.gov.uk

The documents are:

- a statement of the grounds of appeal
- a copy of any relevant application
- a copy of any relevant environmental permit
- a copy of any relevant correspondence between the appellant and the regulator
- a copy of any decision or notice which is the subject matter of the appeal
- a statement indicating whether you wish the appeal to be in the form of a hearing or dealt with by way of written representations.

You may withdraw an appeal by notifying the Secretary of State in writing and sending a copy of that notification to us.

If you have any questions about this permit please phone our Customer Contact Centre on 03708 506 506. They will put you in touch with a local regulatory officer.

Yours faithfully

Heather Carter
Permit Support Advisor

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Hanson Quarry Products Europe Limited
Dagenham Dock Aggregate Recycling Facility
Land on Breach Lane
Dagenham Dock
Dagenham
London
RM9 6QD

Permit number

EPR/BB3005TG

Dagenham Dock Aggregate Recycling Facility

Permit number EPR/BB3005TG

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The site is located within industrial surroundings in the London Borough of Dagenham and Barking, approximately 315m north of the River Thames. The permit allows the facility to accept and physically treat and store non-hazardous wastes for recovery purposes. The annual throughput of the site is less than 250,000 tonnes.

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

Status log of the permit		
Description	Date	Comments
Application EPR/BB3005TG/A001	Duly made 08/12/2014	Application for an Aggregate Recycling Facility.
Schedule 5 notice issued	28/01/2015	Schedule 5 issued
Additional information received	09/02/2015	Responses to schedule 5 notice
Permit determined EPR/BB3005TG	09/03/2015	Permit issued to Hanson Quarry Products Europe Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BB3005TG

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Hanson Quarry Products Europe Limited ("the operator"),

whose registered office is

**Hanson House
14 Castle Hill
Maidenhead
SL6 4JJ**

company registration number 00300002

to operate a waste operation at

**Dagenham Dock Aggregate Recycling Facility
Land on Breach Lane
Dagenham Dock
Dagenham
London
RM9 6QD**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Helen Rowlands	09/03/2015

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.1.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2 Odour

- 3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.3 Noise and vibration

- 3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period

- specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Pests

- 3.4.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
- (i) off-site environmental effects; and
- (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities	
Description of activities for waste operations	Limits of activities
R5: Recycling/reclamation of other inorganic materials 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)	Physical treatment including manual and mechanical sorting/ separation, crushing and screening of non-hazardous waste for recovery. Wastes shall be stored for no longer than 3 years prior to recovery.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	'How to Comply' – technical standards, Part B4, question 3a of the application form.	08/12/2014

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for waste storage and physical treatment.	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 250,000 tonnes a year.
Exclusion Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dust, powders or loose fibres • Wastes that are in a form which is either sludge or liquid	
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 02	wastes from mineral non-metalliferous excavation
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
10	Wastes from thermal processes
10 11	wastes from manufacture of glass and glass products
10 11 12	waste glass other than those mentioned in 10 11 11
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete and concrete sludge
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 07	glass packaging
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 02	glass
17 03	bituminous mixtures, coal tar and tarred products

Table S2.1 Permitted waste types and quantities for waste storage and physical treatment.	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 250,000 tonnes a year.
Exclusion Wastes having any of the following characteristics shall not be accepted: • Consisting solely or mainly of dust, powders or loose fibres • Wastes that are in a form which is either sludge or liquid	
Waste code	Description
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
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
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 05	glass
19 12 09	minerals (for example sand, stones)
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 02	glass
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Schedule 3 – Emissions and monitoring

There are no emission limits or associated monitoring requirements.

Schedule 4 – Reporting

There is no reporting under this schedule.

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

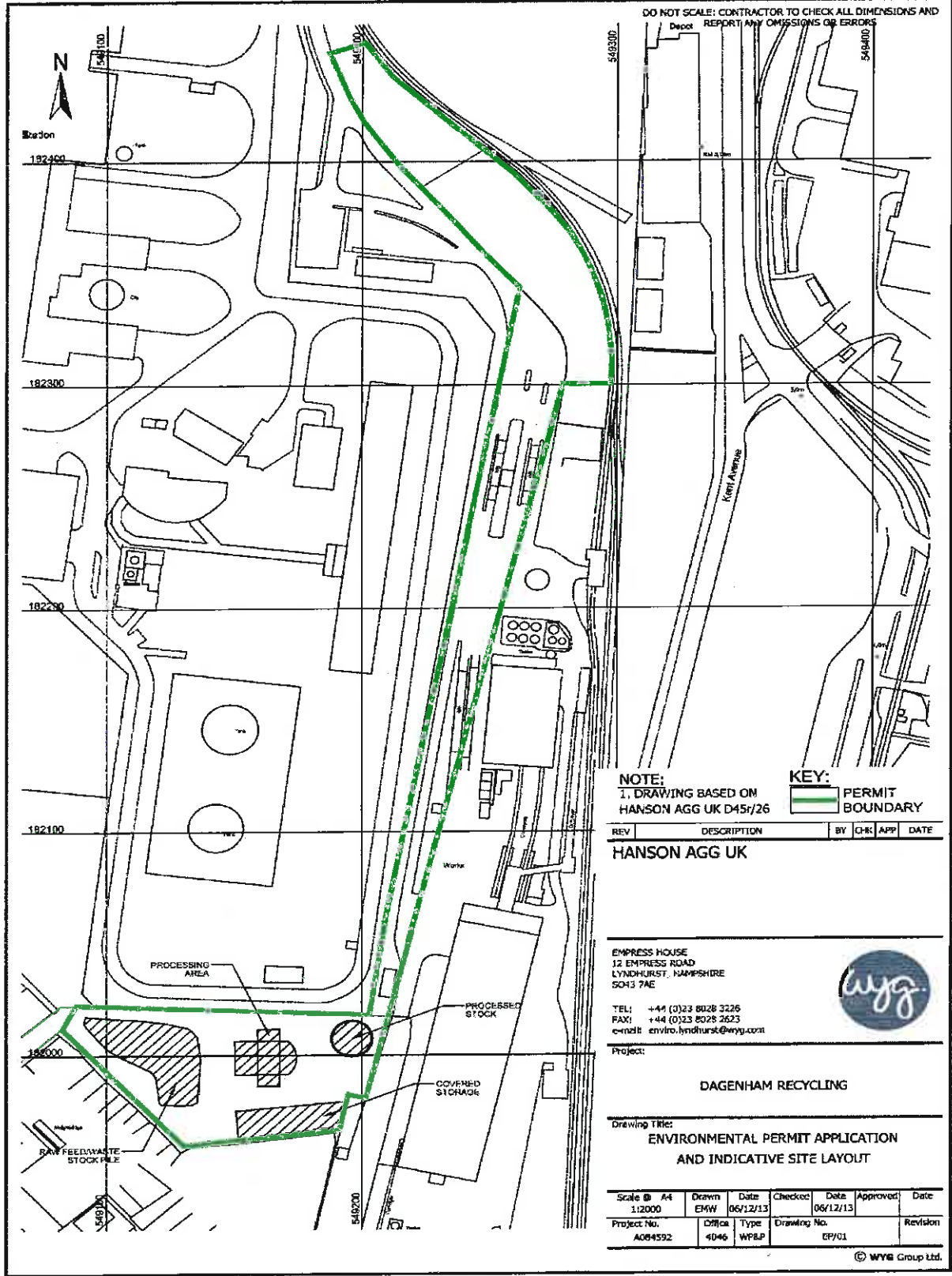
“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Brett Aggregates Limited

East Hall Farm
New Road
Wennington
Rainham
Essex
RM13 9DS

Variation application number

EPR/EB3201HA/V002

Permit number

EPR/EB3201HA

East Hall Farm

Permit number EPR/EB3201HA

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 notice amends the waste codes that can be accepted on site; several waste codes have been removed from the list of permitted wastes to align with the waste types detailed within 'The Landfill Tax (Qualifying Material) Order 2011'. Table S2.1 has also been amended to include an additional restriction/notes that states all waste accepted must be listed within the Landfill Tax (Qualifying Materials) Order 2011 at the request of the operator.

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
Application EPR/EB2301HA/A001	Duly made 03/05/2017	Application for inert landfill, soil treatment facility and use of waste for restoration with discharge to surface water.
Additional information received	19/09/2017	Submission of schedule 5 response letter v6 Final to EA; Dust Action Plan; Drawing 007 – Environmental Monitoring, dated September 2017; Drawing 010A – Local Hydrogeology and Hydrology, dated September 2017; Drawing 010B - 'Hydrogeological Cross Section A-A', dated September 2017; Drawing 010C – 'Hydrogeological Cross Section B-B', dated September 2017; Drawing Groundwater Quality graph; Notice of Decision for discharge of condition C13 (Operations method statement) and C20 (Dust control) of Planning Permission no. P0271.14, and Noise modelling study spreadsheet. Further information relating to the discharge and designated sites, species and the impact upon the watercourse.
Additional information received	13/10/2017	Submission of LandSim modelling files and modelling results; Further information to noise modelling co-ordinates and boundary drawing.
Additional information received	11/01/2017	Submission of Hydrological Risk Assessment.
Additional information received	12/01/2018	Submission of letter response, site layout drawing 004.
Additional information received	20/02/2018	Submission of Dust Management Plan v2 final;

Status log of the permit		
Description	Date	Comments
		Updated expenditure plan and Appendix F – Waste Acceptance Criteria.
Additional information received	08/03/2018	Submission of SoundPlan data files.
Additional information received	16/03/2018	Submission of updated Drawing 007 'Environmental monitoring' plan.
Additional information received	04/05/2018	Submission of confirmation of total quantity of waste imported for the engineering of the geological barrier.
Additional information received	13/06/2018	Submission of email response and attached documents: Hydrological Assessment of Proposed Discharge including Appendix HA1, HA2, HA3 and HA4 dated June 2018.
Additional information received	18/06/2018	Submission of BS4142 Noise assessment report and Noise Management Plan.
Additional information received	19/07/2018	Submission of EHF08 borehole log and EHF 02 B - Borehole Location Plan.
Additional information received	02/08/2018	Submission of updated Drawing 007 'Environmental monitoring' plan.
Permit determined EPR/EB3201HA	08/08/2018	Permit issued to Brett Aggregates Limited.
Application EPR/EB3201HA/V002 (variation)	Duly made 11/11/2019	Application to remove waste codes.
Variation determined EPR/EB3201HA	02/01/2020	Varied permit 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/EB3201HA

Issued to

Brett Aggregates Limited ("the operator")

whose registered office is

**150 Aldersgate Street
London
EC1A 4AB**

company registration number 00316788

to operate a regulated facility at

**East Hall Farm
New Road
Wennington
Rainham
Essex
RM13 9DS**

to the extent set out in the schedules.

The notice shall take effect from 02/01/2020

Name	Date
Tracey Pollard	02/01/2020

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 S2.1 as referenced in condition 2.7.1(a) is amended as follows:

Table S2.1 Permitted waste types for disposal at a landfill for inert waste	
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
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 ^[1]
01 04 09	waste sand and clays ^[1]
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 ^[1]
17	Construction and demolition wastes (excluding excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete ^[1] ^[2]
17 01 02	bricks ^[1] ^[2]
17 01 03	tiles and ceramics ^[1] ^[2]
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 ^[1] ^[2]
17 05	soil, stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03 (excluding topsoil and peat) ^[1] ^[3]
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones (excluding topsoil and peat) ^[1] ^[3]
Note [1] – All wastes received must be listed in the Landfill Tax (Qualifying Materials) Order 2011. Note [2] – Selected construction and demolition waste (C&D waste: with low contents of other types of materials like metals, plastic, organics, wood, rubber etc.). The origin of the C&D waste must be known. No C&D waste from constructions, polluted with inorganic or organic dangerous substances, e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances, etc., unless it is made clear that the demolished construction was not significantly polluted. No C&D waste from constructions, treated, covered or painted with materials, containing dangerous substances in significant amounts. Note [3] – Soil includes naturally occurring sands and clays	

Schedule 3 – conditions to be added

None.

Permit

The Environmental Permitting (England & Wales) Regulations 2016

JRL Environmental Limited

JRL Environmental
Knights Road
Silvertown
London
E16 2AT

Permit number

EPR/WE4202AA

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/WE4202AA

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

JRL Environmental Limited ("the operator"),

whose registered office is

**4 Elstree Way
Borehamwood
Hertfordshire
WD6 1RN**

registration number **08809475**

to operate waste operations described in standard rules **2010 No12** at

**JRL Environmental
Knights Road
Silvertown
London
E16 2AT**

to the extent authorised by and subject to the conditions of this permit.

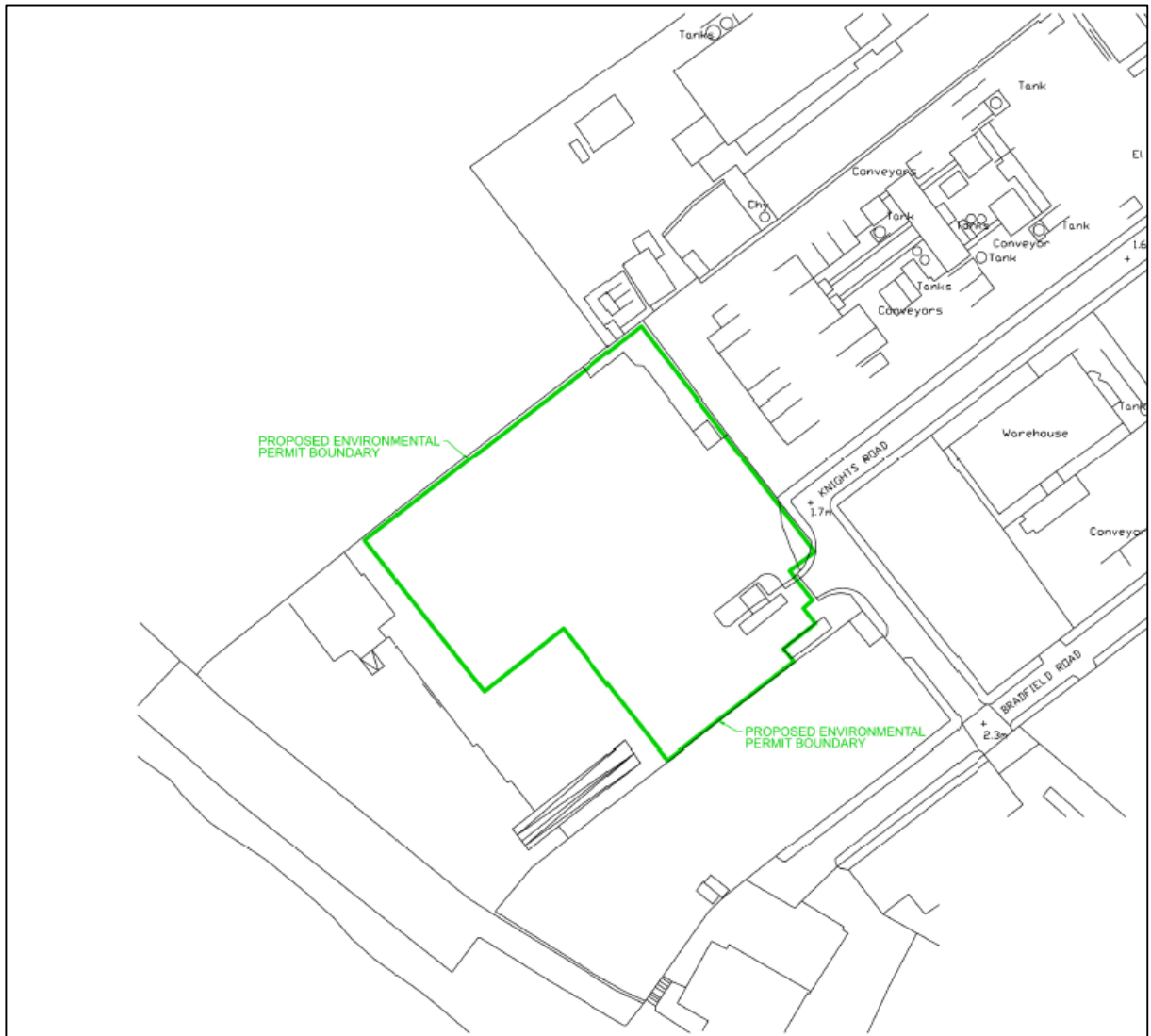
Under regulation 27(2) of the Regulations, standard rules **2010 No12** are conditions of this permit.

Name	Date
Grant Wilson	09/07/2019

Authorised on behalf of the Environment Agency

Schedule 1 – Site plan

This is the plan referred to in the standard rules 2010 No12



Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Marshgate Sidings

DB Schenker Rail (UK) Limited
Marshgate Sidings
Pudding Mill Lane
Bow
London
E15 2PJ

Variation notice number
EPR/BP3698EQ/V002

Permit number
EPR/BP3698EQ

Marshgate Sidings Permit number EPR/BP3698EQ

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations 2010 S.I.2010 No. 675 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

This variation is to lift the restriction on the source of waste accepted at the site from that stipulated in the original permit. It also increases the tonnages that the site can store, its annual throughput as well increasing the types of waste the site can accept. It confirms that the site is now operated by DB Schenker Rail (UK) Limited which has the same registration number as the previous company and therefore does not require the permit to be transferred.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions, Schedule 3 lists any conditions that have been added and Schedule 4 shows any changes to the plan.

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

Status Log of the permit

Detail	Date	Response Date
Permit determined EAWML 100245	14/02/08	
Application EPR/BP3698EQ/V002	Duly made	11/06/10
Variation issued	16/08/10	

End of Introductory Note

Notice of variation
Environmental Permitting
(England and Wales) Regulations 2010

Permit number
EPR/BP3698EQ

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 (SI 2010 No 675) varies the permit as set out below.

DB Schenker Rail (UK) Limited ("the operator"),

whose registered office is

Lakeside Business Park
Carolina Way
Doncaster
South Yorkshire
DN4 5PN

company registration number 02938988

holds a permit to operate a *regulated facility* at

Marshgate Sidings
Pudding Mill Lane
Bow
London
E15 2PJ

and that permit is varied to the extent set out in Schedules 1 to 4 of this notice.

The notice shall take effect from 16 August 2010

Name: Helen Smith

Date

	16 August 2010
---	----------------

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

The following conditions are deleted

2.2.1 (c).

Schedule 2 – conditions to be amended

The following conditions are amended as follows

Schedule 2 - Operations

Table 2.1 Licensed activities	
Description of activities	Limits of activities
D15: Storage of waste pending any of the operations listed in paragraphs 1 to 14 of this Part of this Schedule, but excluding temporary storage, pending collection, on the site where the waste is produced.	Non-hazardous and Inert wastes as listed in Table 2.2 shall be kept on an impermeable surface with sealed drainage
R13: Storage of waste pending any of the operations in paragraphs 1 to 12 of this Part of this Schedule, but excluding temporary storage, pending collection, on the site where it is produced.	No more than 50,000 tonnes of waste shall be stored at the site at any one time. The maximum height that waste may be stored is 5 metres.
D14: Repacking of waste prior to the waste being submitted to any of the operations listed in paragraphs 1 to 13 of this Part of the Schedule.	

Table 2.2 Licensed waste types and quantities**Maximum Quantities**

The quantity of wastes listed below, accepted at the site shall be less than 700,000 tonnes a year.

Exclusions

Notwithstanding the specification of waste types below, wastes shall not be accepted at the site which have any of the following characteristics:

- Consisting solely or mainly of dusts, powders or loose fibres
- Wastes that are in a form of which is either sludge or liquid

Waste Code	Description
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
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

Table 2.2 Licensed waste types and quantities

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	cables 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 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 08	gypsum-based construction material
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 THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR 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 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
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

Table 2.2 Licensed waste types and quantities	
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
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
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 28	paints, inks, adhesives and resins other than those mentioned in 20 01 27
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 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes

Schedule 3 – conditions to be added

None.

Schedule 4 – amended plan

None.

BETA This is a trial service – your feedback (<mailto:enquiries@environment-agency.gov.uk>) will help us to improve it.

[Home \(/public-register/view/index\)](#) / [Search waste operations \(/public-register/view/search-waste-operations\)](#)
/ [Result from Environmental Permitting Regulations – Waste Operations for England](#)

Permit DB3502TZ/V002 – Recycled Material Supplies Limited

Permit number DB3502TZ/V002
Waste Management Licence No. 402833
Licence Holder Name Recycled Material Supplies Limited

Site

Site name Perry Road Recycling Facility
Site type A16 : Physical Treatment Facility
Site Address Perry Road Recycling Facility, Perry Road, Off Chequers Lane, Dagenham, Essex, RM9 6QD
Site Postcode RM9 6QD (<http://data.ordnancesurvey.co.uk/id/postcodeunit/RM96QD>)
Site Grid Reference TQ4912581891
Easting 549125
Northing 181891
Local Authority Barking and Dagenham (<http://www.lbdd.gov.uk/>)

Status

Status Description Modified
Issued Date 31/03/2016
Variation Date 17/01/2019

[Request documents \(mailto:dutyofcare@environment-agency.gov.uk?subject=Request for WO documents: DB3502TZ/V002&body=I would like to request documents per](mailto:dutyofcare@environment-agency.gov.uk?subject=Request for WO documents: DB3502TZ/V002&body=I would like to request documents per)

[Back](#)

Support

[Submit feedback or ask for support \(https://support.environment.data.gov.uk/hc/en-gb/requests/new\)](https://support.environment.data.gov.uk/hc/en-gb/requests/new)
[FAQs \(https://support.environment.data.gov.uk/hc/en-gb/categories/360000746772-FAQs\)](https://support.environment.data.gov.uk/hc/en-gb/categories/360000746772-FAQs)
[Announcements \(https://support.environment.data.gov.uk/hc/en-gb/categories/360000745191-Announcements\)](https://support.environment.data.gov.uk/hc/en-gb/categories/360000745191-Announcements)
[Terms and Conditions \(https://support.environment.data.gov.uk/hc/en-gb/articles/360015443132-Terms-and-conditions\)](https://support.environment.data.gov.uk/hc/en-gb/articles/360015443132-Terms-and-conditions)
[Privacy Notice \(https://support.environment.data.gov.uk/hc/en-gb/articles/360015530271-Privacy-Notice\)](https://support.environment.data.gov.uk/hc/en-gb/articles/360015530271-Privacy-Notice)

About this page

All content is available under the [Environment Agency Conditional Licence \(https://www.gov.uk/government/publications/environment-agency-conditional-licence/environment-agency-conditional-licence\)](https://www.gov.uk/government/publications/environment-agency-conditional-licence/environment-agency-conditional-licence), except where otherwise stated

Maintained by [Swirl \(http://www.swirl.com\)](http://www.swirl.com).



Environment
Agency

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Recycled Material Supplies Limited

Perry Road Recycling Facility

Perry Road
Off Chequers Lane
Dagenham
London
RM9 6QD

Permit number

EPR/DB3502TZ

Perry Road Recycling Facility

Permit number EPR/DB3502TZ

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit is for an aggregate recycling facility at Perry Road in Dagenham, operated by Recycled Materials Supplies Limited. 250,000 tonnes of general construction, demolition and excavation waste will be processed a year and this will include secondary aggregates and these quantities necessitate a bespoke permit. Operations on site will be consistent with those set out in Standard Rules SR2010No12: Treatment of waste to produce soil, soil substitutes and aggregate. These inert wastes will be processed and stored on site while any residual wastes not for recycling will be stored ready for transfer off site for recovery or disposal.

The site is located near Perry Road in southern Dagenham Dock, in Dagenham on the Thames River (see site plan). The location is in an industrial area containing businesses that undertake similar activities with the closest residential properties to the site being located across the River Thames in Thamesmead approximately 1.1m to the south west of the site. To the north east of the site the nearest residential properties are location 1.4km away in Oval Road and 1.6 km to the north west in Shaw Gardens.

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

Status log of the permit		
Description	Date	Comments
Application EPR/DB3502TZ/A001	Duly made 14/12/2015	Application for inert waste transfer station with treatment
Schedule 5 response	26/02/2016	Revised dust management plan received
Additional information	16/03/2016	Confirmation that permitted activities will not commence until dust management and drainage plans are approved by Area Team.
Permit determined EPR/DB3502TZ	31/03/2016	Permit issued to Recycled Material Supplies Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/DB3502TZ

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Recycled Material Supplies Limited ("the operator"),

whose registered office is

**Bank Chambers
Canterbury Road
Lyminge
Folkestone
Kent
CT18 8HU**

company registration number **06221599**

to operate waste operations at

**Perry Road Recycling Facility
Perry Road
Off Chequers Lane
Dagenham
London
RM9 6QD**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Neda Kayyali	31/03/2016

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 For the following activities referenced in schedule 1, table S1.1 the activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1
 - (b) it conforms to the description in the documentation supplied by the producer and holder.

2.4 Pre-operational conditions

- 2.4.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.3 have been completed.

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.1.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2 Odour

- 3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.3 Noise and vibration

- 3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the

operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Monitoring

3.4.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) ambient air monitoring specified in table S3.1;

3.5 Fire prevention

3.5.1 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
- (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

- 4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 3.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A16 Physical Treatment Facility	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 sorting, separation, screening, crushing or blending of waste into different components for recovery.
	R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	Secure storage of wastes listed in table 2.1 pending treatment.
	R5: Recycling/reclamation of other inorganic materials	No more that 250,000 tonnes of waste shall be treated in any one year
	R12: Exchange of wastes for submission to any of the operations numbered R1 to R11	

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 notice	Application Bespoke - Schedule 5 Response Dust Management Plan	26/02/2016

Table S1.3 Pre-operational measures	
Reference	Pre-operational measures
1	The Operator shall submit to the Environment Agency for approval a written drainage plan and obtain the Environment Agency's written approval to it.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for physical treatment	
Maximum quantity	250,000 tonnes per year
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
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
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 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
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 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 09	minerals (for example sand, stones)
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Schedule 3 – Emissions and monitoring

Table S3.1 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
DM1 as described in the dust and particulate matter emission management plan *	Particulate Matter PM10	Continuous	Environment Agency guidance 'Monitoring of Particulate matter in ambient air around waste facilities, M17' (version 2 dated July 2013) or such other guidance as may be agreed in writing with the Environment Agency	Measured over a 5 minute averaging time.

*a PM10 monitoring survey will be undertaken at the site to determine the most suitable location for the monitoring device taking into consideration proposed infrastructure at the site and the locations of neighbouring sites with the potential to release particulate matter.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Dust monitoring	DM1	Every quarter	On date of commencement of operations

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	31/03/2016

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"List of Wastes" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"R" means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

"year" means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table S2.1, they have the meaning given below:

"hazardous substance" means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

"heavy metal" means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.

"PCBs" means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane

- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

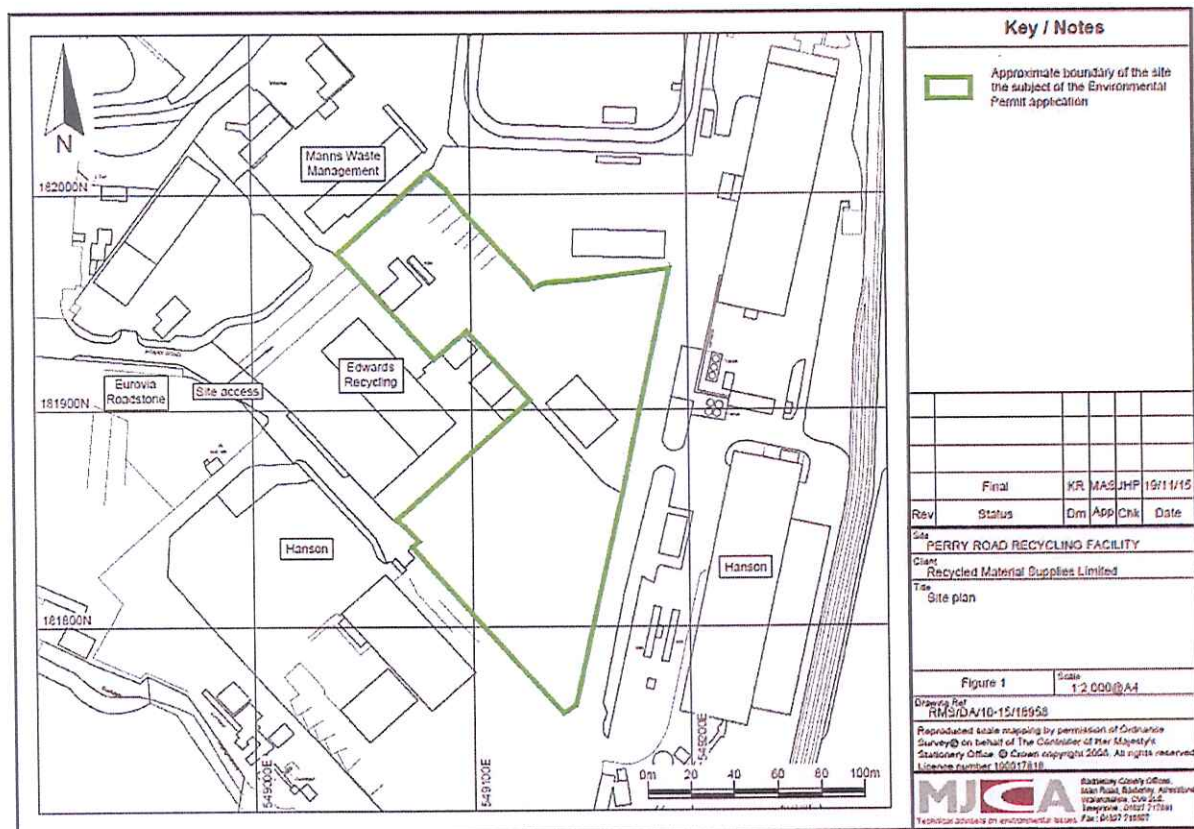
"transition metals" means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

"stabilisation" means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste.

"solidification" means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste.

"partly stabilised wastes" means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan



END OF PERMIT

Pat Gannon

From: Credit Control
Sent: 15 March 2019 09:07
To: Pat Gannon
Subject: FW: Invoice queries - 88273, 88263, 88246 - Oncecall

Hi Pat

Can you take a look at below please?

Kind Rgd

Alison

From: James Carter <james@oncecallsiteservices.com>
Sent: 14 March 2019 15:04
To: Credit Control <CreditControl@rmseastlondon.co.uk>
Subject: Invoice queries - 88273, 88263, 88246

Please can you reissue these invoices. They should have been shown as a rate of £8 per tonne, not per load. Many thanks.

James Carter
Managing Director
07980 311485
james@onecallsiteservices.com



Onecall Site Services
26 Kings hill Avenue, Kings hill, West Malling, Kent, ME19 4AE
Tel: 01732 424242
Web: www.onecallsiteservices.com

Company Registration Number 9427614

Aggregates | Grub & Tigger Hire | Crusher & Screener Hire | Muck Away | Plant Hire | Specialist Topsoils | Hazardous Muck Away | Site Clearance



The information contained in this e mail is intended only for the person or entity to whom it is addressed and may contain confidential and/or privileged material. If you have received this e mail in error please note that any review, retransmission, copying, dissemination or other use of, or taking of any action in reliance upon its contents is prohibited. If you are not an intended recipient, please delete the material from any computer that may have it and contact OneCall Site Services Ltd, or send an email to the above address. Thank you for your co-operation. The contents of an attachment to this email may contain software viruses which could damage your computer system. We cannot accept liability for any damage which you sustain as a result of software viruses. You should carry out your own virus checks before opening any attachment.

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Keltbray Environmental Ltd

Plaistow Wharf
North Woolwich Road
London
E16 2AB

Permit number

EPR/CP3035QC

Plaistow Wharf

Permit number EPR/CP3035QC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Plaistow Wharf is a transfer station accepting both hazardous and non-hazardous wastes, predominantly soil and stone from construction, demolition and excavation sites. No treatment of wastes will be undertaken at the installation.

The following schedule 1 activity is undertaken at the installation:

Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending transfer offsite for recovery or disposal.

Up to 100,000 tonnes of non-hazardous waste and 50,000 tonnes of hazardous waste will be stored at the site per annum, prior to onward transfer for recovery or disposal. Wastes will be transported into and out of the site by road and by barge via the River Thames.

The surrounding area is mainly industrial in nature, including other waste management facilities. The site is north east of and adjacent to the River Thames. The site is located approximately 250m from the Newham Air Quality Management Area (declared for nitrogen dioxide and dust). The nearest residential receptors are located approximately 300m to the north east of the site. Approximately 1,900m to the south east of the site is Gilbert's Pit (Charlton) Site of Special Scientific Interest.

Due to the nature of the activities and the types of wastes accepted, there is the potential for dust emissions from the site. The operator has provided a Dust Management Plan that details the measures in place to prevent dust emissions beyond the site boundary.

Small quantities of non-hazardous combustible wastes may be included within the wastes accepted at the site. The operator has provided a Fire Prevention Plan, which describes the measures in place at the site to minimise the likelihood of a fire occurring, enable a fire to be extinguished within 4 hours, and minimise the spread of fire within the site and to neighbouring sites.

The site is surfaced in impermeable concrete. Surface water is managed so that contaminated run-off drains to a sealed sump, the contents of which will be periodically tankered off-site to a licensed disposal facility. Uncontaminated surface water run-off will be separately collected and discharged to the River Thames (emission point W01) via an interceptor.

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

Status log of the permit		
Description	Date	Comments
Application EPR/CP3035QC/A001	Duly made 11/10/2018	Application for bespoke installation permit: temporary storage of hazardous and non-hazardous wastes.
Additional information received	07/12/2018	Response to Schedule 5 notice dated 07/12/2018 including information on site plan, site drainage, waste throughput, fire prevention plan, dust management plan, waste acceptance procedures, waste storage and operating techniques.

Status log of the permit		
Description	Date	Comments
Additional information received	11/01/2018	Response to Schedule 5 notice dated 17/12/2018 including information on site condition report.
Permit determined EPR/CP3035QC (Billing ref. CP3035QC)	10/06/2019	Permit issued to Keltbray Environmental Ltd.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/CP3035QC

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Keltbray Environmental Ltd ("the operator"),

whose registered office is

**St Andrew's House
Portsmouth Road
Esher
Surrey
KT10 9TA**

company registration number 06564049

to operate an installation at

**Plaistow Wharf
North Woolwich Road
London
E16 2AB**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Emma Pemberton	10/06/2019

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1: AR1, the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1: AR1, the operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1: AR1, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2 or S2.3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

Hazardous waste storage and treatment

- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any

approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2;
- (b) ambient air monitoring specified in table S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Fire prevention

3.6.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1: AR1, a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production /treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	Section 5.6 Part A(1)(a)	Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending transfer off site for disposal or recovery. R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced). D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	From receipt of wastes to transfer off site. Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. Waste shall be stored on an impermeable surface with sealed drainage. Waste shall be stored to a maximum height of half a metre (0.5m) below the boundary walls. Non-road mobile machinery (NRMM) used on site shall meet the requirements of Directive 97/69/EC unless otherwise agreed in writing by the Environment Agency. Waste types as specified in Table S2.2.
Directly Associated Activity			
	Water discharges to controlled water.	Discharge of uncontaminated site drainage from the installation.	From interceptor to point of entry to controlled water.
	Water discharges to sealed sump.	Discharge of contaminated site drainage from the installation.	From collection in sealed drainage system to transfer from installation.
Activity reference	Description of activities for waste operations		Limits of activities
AR2	Temporary storage of non-hazardous waste. R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).		Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. Waste shall be stored on an impermeable surface with sealed drainage. Waste shall be stored to a maximum height of half a metre (0.5m) below the boundary walls.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	Non-road mobile machinery (NRMM) used on site shall meet the requirements of Directive 97/69/EC unless otherwise agreed in writing by the Environment Agency. Waste types as specified in Table S2.3.	

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Parts A, B2, B3 and F1 the application documents and all supporting information.	Duly Made 11/10/2018
Information received in response to Schedule 5 notice dated 07/12/2018	Fire Prevention Plan Dust Management Plan Materials Acceptance Procedures Site Working Plan (including barge loading procedure)	08/03/2019 08/03/2019 10/06/2019 10/06/2019
Information received in response to Schedule 5 notice dated 17/12/2018	Response to questions regarding site condition report and fuel storage and refuelling activities	11/01/2019
Information received in response to question 6 of email dated 01/02/2019	Additional detail on waste acceptance and rejection procedures Environmental Plan (including interceptor maintenance procedure)	15/02/2019 08/03/2019

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	A written report considering the results of the first 12 months of ambient air monitoring, required by table S3.3, shall be submitted to the Environment Agency for approval. The report shall include, but not be limited to: - a review of the monitoring data, identifying any trends, 'spikes' or significant increases in the levels of dust recorded; - a review outlining the sources and activities attributed to causing any increases in levels of dust and the evidence supporting these conclusions; - an assessment of the impact of fugitive dust emissions from the installation; - a review of the effectiveness of the operator's particulate/dust monitoring strategy as described in the Dust Management Plan. This should include a review of the existing operational procedures and general housekeeping for the control of fugitive dusts; - proposals for amendments to existing procedures, or for the implementation of additional measures, if deemed necessary	15 months from the commencement of operations.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	following the review of monitoring data and dust impact assessment; and a proposed timetable for completion of any required works. The operator shall implement any necessary actions, outcomes and/or improvements to a timetable agreed in writing with the Environment Agency.	
IC2	Upon completion of IC1, the operator shall submit a revised Dust Management Plan, for approval by the Environment Agency, which incorporates all agreed additional measures.	2 months from the completion and approval of IC1.
IC3	The operator shall implement the monitoring programme required by pre-operational condition PO3 to validate the assumptions made in application EPR/CP3035QC/A001 in relation to the releases of pollutants to surface water (via the interceptor) at emission point W01. The operator shall submit monitoring data, collected during the first twelve months of operation, in writing to the Environment Agency according to agreed reporting periods.	13 months from commencement of operations.
IC4	The operator shall conduct a review of the discharge from emission point W01 using the results of the monitoring undertaken in response to IC3 during the first year of operation. The review shall be used to validate the description of the discharge provided with the application. If any pollutants are identified at levels above those that would be expected to be found in uncontaminated water, the origins of these contaminants shall be investigated and their levels considered through an environmental risk assessment. The environmental risk assessment must be undertaken in accordance with the screening procedures in Environment Agency guidance: Surface water pollution risk assessment for your environmental permit (link) published 01 February 2016, last updated 03 April 2018), using the representative emissions data obtained in IC3 above. A written report shall be submitted to the Environment Agency for approval. The report shall include, but not be limited to: - details of the IC3 monitoring results and subsequent review; - an environmental risk assessment where necessary; - confirmation of the ongoing monitoring schedule for discharge to surface water from emission point W01, including parameters to be monitored, monitoring frequency and reporting to the Environment Agency; - proposals for amendments to existing procedures and/or for the implementation of additional measures; and - a proposed timetable for completion of any changes or works.	3 months from the completion of IC3.

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
PO1	Prior to the commencement of commissioning, the operator shall submit a report demonstrating the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED. The report shall contain information, supplementary to that already provided in the application Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED. The report must be agreed in writing by the Environment Agency prior to commencement of the activities.
PO2	Prior to the commencement of operations, the operator shall provide a copy of the final Construction Quality Assurance Validation Report documenting the completion of all hard surfacing and drainage construction works. The operator shall ensure that a review of the design, method of construction and integrity of the hard surfacing and drainage is carried out by a qualified structural engineer.
PO3	The operator shall develop a monitoring programme to validate the assumptions made in application EPR/CP3035QC/A001 in relation to the releases of pollutants to surface water (via the interceptor) at emission point W01. The monitoring programme and associated methodologies shall be agreed in writing with the Environment Agency prior to the commencement of operations, having regard to the Environment Agency M18 Guidance Note: Monitoring of discharges to water and sewer, version 6, September 2017. As a minimum the monitoring programme should include monthly monitoring frequency. The pollutants to be monitored shall include: arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc, hydrocarbons and any other relevant parameters as having been identified as potentially present within the discharge. The monitoring programme shall include reporting periods for the submission of the collected monitoring data to the Environment Agency.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	-

Table S2.2 Permitted waste types and quantities for activity AR1 – temporary storage of hazardous waste	
Maximum quantity	50,000 tonnes per annum
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
Waste code	Description
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 01	concrete, bricks, tiles and ceramics
17 01 06*	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing hazardous substances
17 03	bituminous mixtures, coal tar and tarred products
17 03 01*	bituminous mixtures containing coal tar
17 04	metals (including their alloys)
17 04 09*	metal waste contaminated with hazardous substances
17 04 10*	cables containing oil, coal tar and other hazardous substances
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	soil and stones containing hazardous substances
17 05 05*	dredging spoil containing hazardous substances
17 05 07*	track ballast containing hazardous substances
17 09	other construction and demolition wastes
17 09 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 06*	wood containing hazardous substances
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances

Table S2.3 Permitted waste types and quantities for activity AR2 – temporary storage of non-hazardous waste	
Maximum quantity	100,000 tonnes per annum
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
Waste code	Description
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 07	mixed metals
17 04 11	cables 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 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
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 the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
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 09	minerals (for example sand, stones)

Table S2.3 Permitted waste types and quantities for activity AR2 – temporary storage of non-hazardous waste	
Maximum quantity	100,000 tonnes per annum
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
Waste code	Description
19 12 12	from mechanical treatment of wastes, predominantly screened soil and stone other than those mentioned in 19 12 11 – excluding all combustible wastes
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 08	biodegradable kitchen and canteen waste
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

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W01 on site plan in schedule 7 emission to River Thames	Uncontaminated surface water interceptor	Parameters as agreed following completion of IC4	No limit set	-	Monthly or as otherwise agreed following completion of IC4	In accordance with M18 methodology unless otherwise agreed in writing by the Environment Agency

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S01 on site plan in schedule 7 emission to sealed sump, empties and tankered off-site by contractor	Contaminated surface water run-off from waste storage bays	No parameters set	No limit set	-	-	-

Table S3.3 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
M01 on site plan in schedule 7	Particulate matter less than 10 micrometres in diameter (PM ₁₀)	5 minute	The equipment shall be operated to a procedure agreed in writing with the Environment Agency.	Monitoring equipment should meet the MCERTS Performance Standards for Indicative Ambient Particulate Monitors or similar standard agreed in writing with the Environment Agency. The equipment shall be calibrated in accordance with the manufacturer's recommendations or 6 monthly, whichever is first. The system must be managed and maintained by suitably trained personnel. The system must obtain representative data that must accurately reflect PM₁₀ levels produced by the site's activities.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Ambient air monitoring Parameters as required by condition 3.5.1.	M01	Every 3 months	1 January, 1 April, 1 July, 1 October

Table S4.2: Annual production/treatment	
Parameter	Units
Hazardous waste IN	tonnes
Hazardous waste OUT	tonnes
Non-hazardous waste IN	tonnes
Non-hazardous waste OUT	tonnes
Waste recycled	tonnes
Waste disposed	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	10/06/2019
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	10/06/2019
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	10/06/2019
Particulates	Form particulate 1 or other form as agreed in writing by the Environment Agency	10/06/2019
Waste subject to condition 4.2.5	Waste tonnage return from the Environment Agency website or other form as agreed in writing by the Environment Agency	10/06/2019

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

“year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, tables 2.2 and 2.3, for those tables, they have the meaning given below:

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“PCBs” means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005% by weight.

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

“stabilisation” means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste.

“solidification” means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste.

“partly stabilised wastes” means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.