Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

GRS Stone Supplies Limited

Lower Hare Inert Landfill
Lane from Five Mile Hill
Whitestone
Exeter
EX4 2HW

Permit number

EPR/LB3502HT

Lower Hare Inert Landfill
Permit number EPR/LB3502HT

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The activity will involve the import and deposit of 350,000 m^3 of inert waste, comprised of uncontaminated soil and stones, to a landfill to address a section of land left in a condition not capable of sustaining commercial agriculture. Additional wastes will be imported for the construction of temporary haul roads. These materials will be removed once the landfill is non-operational and will not form part of the final landform.

The site is located 800 m west of Whitestone village and approximately 8 km west of Exeter. It covers an area of 11.5 hectares of land that is predominantly in use for agriculture and is bound by agricultural land on all sides.

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/LB3502HT/A001	Duly made 01/03/24	Application for landfill for inert waste.
Additional information received	21/06/24	Information on Dust Emissions Management Plan and financial provision.
Additional information received	10/07/24	Information on Hydrogeological Risk Assessment, Waste Importation Protocol, Stability Risk Assessment and surface water monitoring and risk assessment.
Additional information received	13/09/24	Dust Emissions Management Plan and Waste Importation Protocol.
Permit determined EPR/LB3502HT	02/04/25	Permit issued to GRS Stone Supplies Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/LB3502HT

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

GRS Stone Supplies Limited ("the operator"),

whose registered office is

10 Goldsmith Way
Eliot Business Park
Nuneaton
Warwickshire
CV10 7RJ

company registration number 09977263

to operate a waste operation at

Lower Hare Inert Landfill
Lane from Five Mile Hill
Whitestone
Exeter
EX4 2HW

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

Name	Date
Charlotte Wakefield	**02/04/2025**

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 Finance

1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency dated 02/04/25 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.

1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:

(a) the costs of setting up and operating the landfill;

(b) the costs of the financial provision required by condition 1.2.1; and

(c) the estimated costs for the closure and aftercare of the landfill.

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

1.3.1 The operator shall:

(a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;

(b) review and record at least every four years whether changes to those measures should be made; and

(c) 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 plans 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.

2.4 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.

2.5 Landfill Engineering

2.5.1 (a) No construction of any new cell or development area shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

(b) The operator shall review the construction proposals every 12 months.

2.5.2 The construction of a new cell or development area shall take place only in accordance with the approved construction proposals unless:

(a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or

(b) a change has otherwise been agreed in writing by the Environment Agency.

2.5.3 The operator shall prepare a CQA Validation Report to cover every 12 month period of construction of the development area. The operator shall submit the CQA validation report to the Environment Agency within 4 weeks following construction of the development area.

2.5.4 No disposal of waste shall take place in a new cell or development area until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.

2.5.5 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.

2.5.6 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:

(a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or

(b) a change has otherwise been agreed in writing by the Environment Agency.

2.5.7 The operator shall submit a CQA Validation Report within 4 weeks of the completion of the landfill infrastructure.

2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.1 and 2.5.5 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

2.5.9 For the purposes of conditions 2.5.1, 2.5.4 and 2.5.5 the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:

(a) confirmed whether or not it is satisfied; or

(b) informed the operator that it requires further information.

2.5.10 Where the Environment Agency has required further information under condition 2.5.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

(a) confirmed whether or not it is satisfied; or

(b) informed the operator that it requires further information.

2.6 Waste acceptance

2.6.1 Wastes shall only be accepted for disposal if:

(a) they are listed in schedule 2, table S2.1; and

(b) they are inert waste; and

(c) they are not liquid waste (including waste waters but excluding sludge); and

(d) all the relevant waste acceptance procedures have been completed; and

(e) they fulfil the relevant waste acceptance criteria; and

(f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and

(g) they are wastes which have been treated, except for wastes for which treatment is not technically feasible.

2.6.2 Waste shall only be accepted for recovery for construction of an engineered structure where:

(a) they are listed in schedule 2, tables S2.3 and S2.4; and

(b) they are accepted in accordance with a waste recovery plan approved in writing by the Environment Agency.

2.6.3 Waste shall only be accepted for restoration where:

(a) they are listed in schedule 2, table S2.2; and

(b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.

2.6.4 The operator shall:

(a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and

(b) be satisfied that the waste conforms to the requirements of condition 2.6.1.

2.6.5 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.

2.6.6 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.6.7 The total quantity of waste that shall be disposed of in the landfill shall be limited by the levels shown on drawing Restoration Plan 213189/PL/D/007 - the levels for the disposal activity are 1.25m below the final levels in this drawing.

2.6.8 The quantity of waste that is disposed of or recovered at the regulated facility in any year shall not exceed the limits in schedule 1, table S1.4.

2.6.9 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or restoration and of the identity of the producer, or in the case of municipal waste and multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.7 Closure and aftercare

2.7.1 The operator shall maintain a closure and aftercare management plan.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 The limits in schedule 3 shall not be exceeded.

3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, table S3.1.

3.1.3 The operator shall prevent the input of any hazardous substances from the activities into groundwater.

3.1.4 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:

(a) between nine and six months prior to the sixth anniversary of the granting of the permit; and

(b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.

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 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 and any other actions specified in the following tables in schedule 3 to this permit:

(a) Point source emissions specified in table S3.1;

(b) Groundwater specified in tables S3.2 and S3.4;

(c) Landfill gas specified in table S3.3;

(d) Surface water specified in table S3.5.

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.

3.4.3 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:

(a) annually; and

(b) prior to the disposal of waste in any new cell or new development area of the landfill; and

(c) following closure of the landfill or part of the landfill

(d) following completion of restoration

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) the results of groundwater monitoring;

(ii) landfill gas monitoring;

(iii) waste types and quantities.

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 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 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this activity and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;

(b) the topographical surveys required by condition 3.3.3 other than those submitted as part of a CQA validation report;

(c) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;

(d) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;

(e) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and

(f) a plan(s) ('the monitoring point plan – MPP') showing the locations of all existing and any new monitoring points.

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 S4.2 or other reporting format as agreed in writing with the Environment Agency; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 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.

4.2.5 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.

4.3 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 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 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

4.3.4 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 "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities	
Specified activity and WFD Annex I and II operations	**Activity description and limits of specified activity**
D1: Deposit into or on to land	The disposal of inert waste into or onto land. The storage of inert waste on land prior to disposal for a period greater than 1 year. Wastes types specified in Table S2.1 for disposal at a landfill for inert waste.
R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Secure storage of wastes listed in Table S2.2 and S2.3 for the purpose of recovery. Storage of wastes listed in Table S2.2 and Table S2.3 shall be limited to three years.
R5: Recycling/reclamation of other inorganic material	Recovery of waste in an engineered structure. Use of waste types specified in Table S2.3 and Table S2.4 for the purposes of construction work.
R10: Land treatment resulting in benefit to agriculture or ecological improvement	Recovery of waste for restoration. Use of waste types specified in Table S2.2 for the purposes of restoration, reclamation or improvement of land. Use of waste to create a final growth layer. Wastes listed in Table S2.2 may only be recovered in the final 500mm layer of the scheme.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Waste Recovery Plan for Geological Barrier, reference 213189/RP, dated 01/05/22	01/03/24
Application	Restoration Plan, reference 213189/RP, dated 01/05/22	01/03/24
Application	Waste Acceptance Procedure – Section 3 of Operational Plan, reference 213189/OP, dated 01/04/22	01/03/24
Response to Schedule 5 Notice dated 14/06/24	Importation Protocol and Construction Controls, reference 213189/IP, dated 01/09/24	01/09/24
Application	Final levels contour plan ('Restoration Plan'), drawing reference 213189/PL/D/007, dated 01/04/22	01/03/24
Response to Schedule 5 Notice dated 14/06/24	Stability Risk Assessment, reference 213189/SRA, dated 01/07/24	10/07/24
Response to Schedule 5 Notice dated 14/06/24	Dust Emissions Management Plan, reference 213189/DEMP, dated 01/09/24	01/09/24
Application	Drainage Strategy – Appendix A of Operational Plan, reference 213189/OP, dated 01/04/22	01/03/24
Application	Monitoring point plan ('Monitoring Plan'), drawing reference 213189/HP/D/001, rev A, dated June 2024	01/03/24

Table S1.3 Pre-operational measures	
Reference	**Pre-operational Measures**
PO1	Wastes shall not be accepted on site for use in the site's geological barrier until the operator has provided a report in writing to the Environment Agency for the Environment Agency's written approval. The report must contain details of each of the specific sites producing a waste stream and provide a representative leaching test results for each of the waste streams from their specified source. The leaching test results shall demonstrate that the waste: • Is from a single source or waste type. • Is physically and chemically suitable.

Table S1.3 Pre-operational measures	
Reference	**Pre-operational Measures**
	• Has a chemical quality that is more stringent than the Waste Acceptance Criteria ("WAC") leaching limit values for inert waste set out in 2.1.2.1 of the European Council's Decision establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 and Annex II to Directive 1999/31/EC and 2003/33/EC. And • Has pollution potential less than, or equal to, the natural chemical quality of the geology the geological barrier is to be constructed against.

Table S1.4 Annual waste input limits	
Category	**Limit Tonnes/ Year**
Inert Waste for disposal	150,000
Waste for restoration	
Waste for recovery in an engineered structure	

Schedule 2 – List of permitted waste

Table S2.1 Permitted waste types for disposal at a landfill for inert waste	
Waste code	**Description**
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 380,000 tonnes per year.** **The total quantity of waste to be accepted at the site shall not exceed 190,000 m^3**
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
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 (excluding topsoil and peat)
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)

Table S2.2 Permitted waste types for restoration	
Waste code	**Description**
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 168,240 tonnes per year.** **The total quantity of waste to be accepted at the site shall not exceed 84,120 m^3**
17	Construction and demolition wastes (including excavated soil from contaminated sites)
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
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

Table S2.3 Permitted waste types for construction of geological barrier	
Waste code	**Description**
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 135,080 tonnes per year.** **The total quantity of waste to be accepted at the site shall not exceed 67,540 m^3**
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil

Table S2.3 Permitted waste types for construction of geological barrier	
Waste code	**Description**
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 135,080 tonnes per year.** **The total quantity of waste to be accepted at the site shall not exceed 67,540 m^3**
17 05 04	soil and stones other than those mentioned in 17 05 03 (excluding topsoil and peat)
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)

Table S2.4 Permitted waste types for construction of temporary haul roads	
Waste code	**Description**
Maximum quantity	**The total quantity of waste accepted at the site shall be less than 150,000 tonnes per year.** **The total quantity of waste to be accepted at the site shall not exceed 75,000 m^3**
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 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 (excluding topsoil and peat)
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)

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (incl unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or method**
SW4 Discharge as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Volume	Surface water pond	2,592m^3/day	24-hour total	Continuous	Minimum requirements for self-monitoring of flow: MCERTS performance standard.
	Suspended Solids		50 mg/l	Spot Sample	Daily	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	pH		>6 and <9 pH units	Instantaneous	Monthly	
	Visible Oil & Grease		No significant trace	Instantaneous (visual examination)	Daily	
	BOD		20 mg/l	Spot Sample	Monthly	
	Ammoniacal Nitrogen		1 mg/l	Spot Sample	Monthly	
	Chloride		130 mg/l	Spot Sample	Monthly	
	Sulphate		190 mg/l	Spot Sample	Monthly	
	Cadmium		0.2 ug/l	Spot Sample	Monthly	
	Zinc		10 ug/l	Spot Sample	Monthly	
	Arsenic		5 ug/l	Spot Sample	Monthly	
	Toluene		1 ug/l	Spot Sample	Monthly	
SW3 as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Ammoniacal Nitrogen	Alphin Brook	3.7 mg/l	Spot Sample	Monthly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride		36 mg/l		Monthly	
	Sulphate		55 mg/l		Monthly	
	Cadmium		0.12 ug/l		Monthly	

Table S3.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (incl unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or method**
	Zinc		10 ug/l		Monthly	
	Arsenic		0.75 ug/l		Monthly	
	Toluene		1.2 ug/l		Monthly	

Table S3.2 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
BH101 as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Ammoniacal Nitrogen	5 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride	75 mg/l			
	Arsenic	5 ug/l			
	Sulphate	35 mg/l			
	Nickel	24 ug/l			
	Toluene	1 ug/l			
BH104 as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Ammoniacal Nitrogen	3.6 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride	52 mg/l			
	Arsenic	5 ug/l			
	Sulphate	35 mg/l			
	Nickel	41 ug/l			
	Toluene	1 ug/l			

Table S3.3 Landfill gas: in-waste monitoring – Action level and monitoring requirements				
Monitoring point Ref. /description	**Parameter**	**Action level (including units)**	**Monitoring frequency**	**Monitoring standard, specifications and other actions**
All in-waste landfill gas monitoring points as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Methane	1% v/v	Monthly	As per LFTGN03 (Guidance on the Management of Landfill Gas, September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Where the concentration of methane at any in-waste monitoring location exceeds the specified action level, the operator shall investigate the root cause in accordance with their gas action plan and waste acceptance procedures. Record whether the ground is: waterlogged frozen snow covered
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric Pressure	no limit		
	Differential Pressure	no limit		
	Flow	no limit		

Table S3.3A Landfill gas: off-site/ perimeter monitoring – Compliance limit and monitoring requirements				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard, specifications and other actions**
MPP as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Methane	1% v/v	Monthly	As per LFTGN03 (Guidance on the Management of Landifill Gas, September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered
	Carbon Dioxide	1.5% v/v above background		
	Oxygen	no limit		
	Atmospheric Pressure	no limit		
	Differential Pressure	no limit		

Table S3.3A Landfill gas: off-site/ perimeter monitoring – Compliance limit and monitoring requirements				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard, specifications and other actions**
	Flow	no limit		

Table S3.4 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
Up gradient MPP as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Water Level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, Sulphate, Nickel, Arsenic, Toluene, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Total Alkalinity, Magnesium, Potassium, Sulphate, Calcium, Sodium, Cadmium, Chromium (III), Chromium (VI), Copper, Iron, Lead, Mercury, Zinc, Manganese, Selenium, Cyanide Antimony, Molybdenum, Total Phenols	Annually	
	Hazardous substances Mercury, Benzene, Toluene, Ethyl Benzene, Xylene, Poly Chlorinated Biphenyls (PCB), Speciated TPH (Aliphatic/ Aromatic), Speciated Polycyclic Aromatic Hydrocarbons (PAHs)	Annually for first six years of operation then every two years	PAH analysis must include all the substances listed in EPR 2016, schedule 10, paragraph 2(d)

Table S3.4 Groundwater – other monitoring requirements			
Monitoring Point Ref./Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
Down or cross gradient MPP as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Water Level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency. PAH analysis must include all the substances listed in EPR 2016, schedule 10, paragraph 2(d)
	Total Alkalinity, Magnesium, Potassium, Sulphate, Calcium, Sodium, Cadmium, Chromium III), Chromium (VI), Copper, Iron, Lead, Mercury, Zinc, Manganese, Selenium, Cyanide, Antimony, Molybdenum, Total Phenols	Annually	
	Hazardous substances Arsenic, Mercury, Benzene, Toluene, Ethyl Benzene, Xylene, Poly Chlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAHs), Speciated TPH (Aliphatic/Aromatic)	Annually for first six years of operation then every two years	
MPP as shown on drawing 213189/HP/D/001, rev A, dated June 2024	Base of monitoring point (mAOD)	Annually	

Table S3.5 Surface water – other monitoring requirements				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
SW1, SW2, SW3 and SW4 As shown on drawing 213189/HP/D/001, rev A, dated June 2024	Electrical Conductivity	Monthly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
SW1, SW2 and SW3 As shown on drawing 213189/HP/D/001, rev A, dated June 2024	Suspended Solids	Daily	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Visual Oil and Grease	Daily	Instantaneous (visual examination)	
	pH	Monthly	Instantaneous	
SW1 and SW2 As shown on drawing 213189/HP/D/001, rev A, dated June 2024	Ammoniacal Nitrogen	Monthly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Chloride			
	Sulphate			

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	**Reporting period***	**Period ends**
Point source emission to water (other than sewer) As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.2	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in monitoring boreholes As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Other groundwater monitoring As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Other surface water monitoring As specified by schedule 3, table S3.5	Every 12 months	31 December

* - where the reporting period is 12 months, you may submit this information as part of the ‘annual report’ required by condition 4.2.2.

Table S4.2 Reporting Forms		
Media/parameter	**Reporting Format**	**Date of Form**
Controlled water	Form Water 1, or other reporting format to be agreed in writing with the Environment Agency	02/04/25
Groundwater	Form Groundwater 1, or other reporting format to be agreed in writing with the Environment Agency	02/04/25
Landfill gas	Form LFG 1, or other reporting format to be agreed in writing with the Environment Agency	02/04/25
Waste Return	E-waste Return Form	-
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	-

Schedule 5 – Notification

This page outlines 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 incident or accident which significantly affects or may significantly affect the environment	
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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements in the event 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	
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 supplied 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.

“Annually” means once every year.

“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.

“Background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Construction Proposals” means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- “As-built” plans and sections of the works;
- Copies of the site engineer’s daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“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.

“Emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations 2016, 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.

“Exceeded” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

“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 substances” as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22.

"Inert waste" means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.

“Landfill infrastructure” means any specified element of the:

- Artificially established geological barrier;
- surface water drainage systems;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes.

“List of Wastes” means the list of wastes established by Commission Decision 2014/995/EC replacing Decision 1994/3/EC and 2000/532/ EC establishing a list of wastes pursuant to Article 7 of Council Directive 2008/98/EC 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.

“Liquids” means any liquid other than leachate.

“MPP” means the monitoring point plan, required to specify routine monitoring locations.

“No impact” means that the change made to the construction process will not affect the agreed design criteria, specification or performance in a way that has a negative effect.

“Previous year” means the 12 month period preceding the month the annual report is submitted in.

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

“Relevant waste acceptance criteria” means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

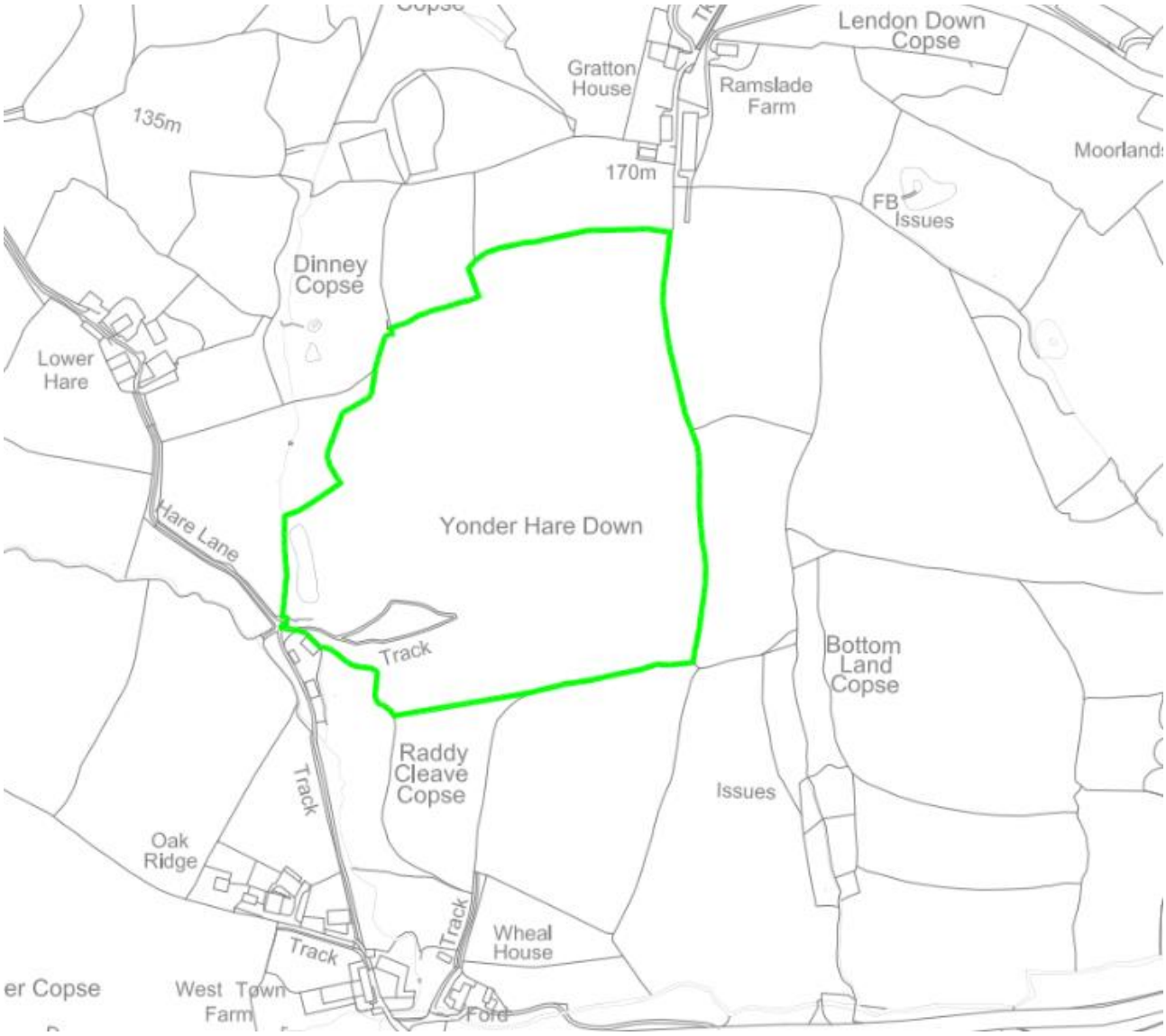
“Relevant waste acceptance procedures” means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

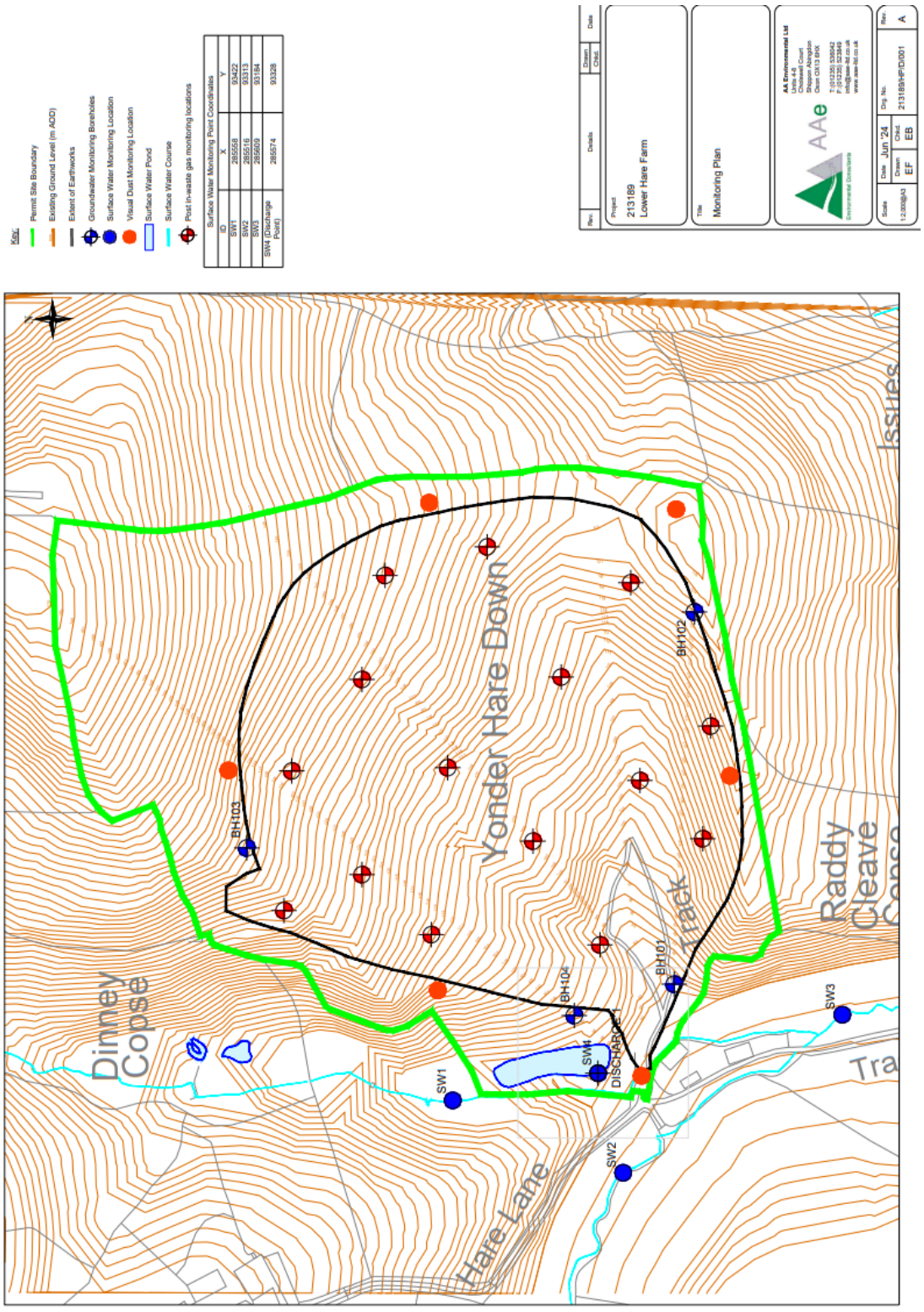
“Review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the EP Regulations.

“Waste code” – See “List of Wastes”.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

Schedule 7 – Site plan





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END OF PERMIT

Surface Water and/or Groundwater Monitoring Form:
version 1, 08/03/2021

Permit number: *[EPR/AB1234CB]* **Operator:** *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Reporting of surface water and/or groundwater monitoring for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Monitoring point	Substance / parameter	Trigger level	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. GW1]	*[e.g. pH]*	*[e.g. >5 and <9 pH units]*	*[e.g. instantaneous]*	*[e.g. BS ISO 5667-11:200]*	*[State result]*	*[State relevant dates and time periods]*	*[State uncertainty if not 95% confidence interval]*

Signed: *[Name]* **Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

[1] Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.

[2] Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.

[3] For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.

[4] Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.