



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Shotley Holdings Limited
Folly Farm Waste Management Facility
Station Road
Tattingstone
Ipswich
Suffolk
IP9 2NY

Variation application number

EPR/SP3239BB/V011

Permit number

EPR/SP3239BB

Folly Farm Waste Management Facility

Permit number EPR/SP3239BB

Introductory note

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

The following gives notice of the variation and consolidation of this environmental permit. We have issued this variation to consolidate the original permit and subsequent variations and to update some of the conditions following a statutory review of permits in the landfill sector. We have also updated the permit into the current EPR permit format using modern conditions.

The operator undertakes the following activities at the installation:

- Non-hazardous waste landfill containing asbestos cells;
- Non-hazardous waste landfill which has ceased to accept waste but is currently being mined in order to provide additional space for the waste transfer station (note that although the site is currently being mined the site is still considered to be operational but waste disposal is not allowed in this area with the exception of restoration purposes);
- Waste transfer station;
- Open windrow composting facility; and
- Bioremediation facility.

This variation application:

- updates the operating techniques with revised technical standards, landfill gas management and monitoring plan; and
- updates Improvement Conditions 3, 5 and 6 as complete or superseded.

Schedule 1 to this notice summarises the changes we have made to this permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/SP3239BB/A001	Duly made 13/05/2005	Application for inert and excavation waste transfer station and composting facility.
Permit determined EPR/SP3239BB	01/09/2006	
Variation application EPR/SP3239BB/V002	Duly made 22/01/2008	Variation to alter annual waste input limits.
Variation determined EPR/SP3239BB/V002	22/12/2008	
Variation application EPR/SP3239BB/V003	Duly made 26/05/2011	Variation to amend list of Permitted Wastes.
Variation determined EPR/SP3239BB/V003	15/07/2011	
Variation application EPR/SP3239BB/V004	11/07/2012	
Operator withdrawn EPR/SP3239BB/V004	20/07/2012	

Status log of the permit		
Description	Date	Comments
Variation application EPR/SP3239BB/V005	13/11/2012	
Operator withdrawn EPR/SP3239BB/V005	04/01/2013	
Variation application EPR/SP3239BB/V006	Duly made 06/02/2013	Variation to extend permit boundary to incorporate whole reed bed and amend input/discharge limit for the reed bed. Permit consolidated.
Variation determined EPR/SP3239BB/V006	28/03/2013	
Variation application EPR/SP3239BB/V007	Duly made 11/09/2013	
Variation determined EPR/SP3239BB/V007	24/10/2013	
Environment Agency Landfill Sector Review 2013 Permit reviewed Variation determined EPR/SP3239BB/V008 Permit EPR/SP3239BB	29/09/2014	
Variation application EPR/SP3239BB/V009 (variation and consolidation)	Duly made 28/07/2015	Application to vary and update the permit to modern conditions and consolidate with EPR/WP3498NB and EPR/DB3103GA.
Variation determined EPR/SP3239BB	06/11/2015	Varied and consolidated permit issued in modern condition format.
Variation application EPR/SP3239BB/V010	Duly made 09/01/2017	Variation to increase annual throughput of the non-hazardous and inert waste at the Waste Transfer Station only from 74,999 to 140,000
Response to request for further information 1	09/01/2017	Variation to increase annual throughput of the non-hazardous and inert waste only.
Response to schedule 5 notice	20/02/2017	Environmental risk assessment
Response to request for further information 2	26/01/2017	Operator confirmed that this application does not change the permitted area, increase the storage area, or stockpile duration time on site.
Response to request for further information 3	24/02/2017	Information received on Environmental Management System (EMS) and surface water management sump.
Permit determined EPR/SP3239BB/V010	28/03/2017	Varied permit issued to Shotley Holdings Limited.
Application EPR/SP3239BB/V011 (variation and consolidation)	Duly made 15/05/2019	Application to vary and update the permit to modern conditions.

Status log of the permit		
Description	Date	Comments
Response to Schedule 5 dated 20/06/2019	20/06/2019 01/07/2019 03/07/2019	Additional information detailing how the maximum levels have been derived, revised landfill gas management and monitoring plans.
Variation determined EPR/SP3239BB Billing references: - Installation - NP3039QG - Waste - EAWML 70687	11/11/2019	Varied permit issued.

End of introductory note

Notice of variation and consolidation

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 and consolidates

Permit number

EPR/SP3239BB

Issued to

Shotley Holdings Limited (“the operator”)

whose registered office is

Folly Farm

Tattingstone

Ipswich

Suffolk

IP9 2NY

company registration number 02678812

to operate regulated facilities at

Folly Farm Waste Management Facility

Station Road

Tattingstone

Ipswich

Suffolk

IP9 2NY

to the extent set out in the schedules.

The notice shall take effect from 11/11/2019

Name	Date
Charlie Harris	11/11/2019

Authorised on behalf of the Environment Agency

Schedule 1

Only conditions 1.1.1, 2.3.1, 2.3.2, 2.5.1, 3.1.1, 3.5.1 and 4.2.3 have been varied by the consolidated permit EPR/SP3239BB.

The following conditions have been varied as a result of an application made by the operator:

- Table S1.2 as referenced by conditions 2.3.1 and 2.3.2 is amended to update the operating techniques.
- Table S3.5 as referenced by condition 3.1.1 and 3.5.1 is amended by removing the Carbon Dioxide (CO₂) limits. Action limits for CO₂ are incorporated into the operating techniques via Table S1.2 and the Landfill Gas Management Plan.
- Also, Table S3.5 is amended by increasing the methane limits for BH 15 and BH 32 from 1% to 9.7 % and 7.6 % respectively.

The following conditions have been varied as a result of an Environment Agency initiated variation:

- Condition 1.1.1 is updated to include “closure”.
- Table S1.3 - Improvement conditions as referenced by condition 2.5.1 is amended to mark improvement conditions 3 and 6 as “complete” because the responses for these have been submitted and approved. Improvement condition 5 has been marked “superseded” as the working plan is now part of the environmental management system.
- Table S4.4 as reference by condition 4.2.3 is amended to update the reporting form to report waste types and quantities to the Environment Agency

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/SP3239BB

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/SP3239BB/V011 authorising,

Shotley Holdings Limited (“the operator”),

whose registered office is

**Folly Farm
Tattingstone
Ipswich
Suffolk
IP9 2NY**

company registration number 02678812

to operate installations and waste operations at

**Folly Farm Waste Management Facility
Station Road
Tattingstone
Ipswich
Suffolk
IP9 2NY**

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

Name	Date
Charlie Harris	11/11/2019

Authorised on behalf of the Environment Agency

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 06 November 2015 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.
- 1.2.1 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 Energy efficiency

- 1.3.1 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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) Implement any appropriate measures identified by a review.

1.4 Efficient use of raw materials

- 1.4.1 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.

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

- 1.5.1 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.
- 1.5.2 For the following activities referenced in schedule 1, table S1.1, A9 to A11, 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.
- 1.5.3 For the following activities referenced in schedule 1, table S1.1, A9 to A11, 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, A9 to A11, 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 For the following activities referenced in schedule 1, table S1.1, A9 to A11, waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2, tables S2.4, S2.5 and S2.6; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.4 For the following activities referenced in schedule 1, table S1.1, A9 to A11, 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.

2.3.5 For the following activities referenced in schedule 1, table S1.1, A9 to A11, 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.

2.4 Technical requirements

WEEE treatment

2.4.1 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex VIII of the WEEE Directive.

2.4.2 WEEE shall be treated using best available treatment, recovery and recycling techniques (BATRRT).

2.4.3 As a minimum, the substances, preparations and components specified in table 2.4 shall be removed from any separately collected WEEE.

Table 2.4 Substances, preparations and components to be removed from separately collected WEEE

- Capacitors containing Polychlorinated biphenyls (PCB)
- Mercury-containing components, such as switches or backlighting lamps
- Batteries
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres
- Toner cartridges, liquid and pasty, as well as colour toner
- Plastic containing brominated flame retardants
- Asbestos waste and components which contain asbestos
- Cathode ray tubes
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC)
- Gas discharge lamps
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps
- External electric cables
- Components containing refractory ceramic fibres
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation
- Electrolytic capacitors containing "substances of concern" (height > 25mm, diameter > 25 mm or proportionately similar volume)

- 2.4.4 All fluids contained within any WEEE shall be removed prior to further treatment.
- 2.4.5 Separately collected components of WEEE specified in table 2.5 shall be treated in accordance with the methods specified in that table.

Table 2.5 Specified Treatment Methods for separately collected components of WEEE	
Component	Specified Treatment
Cathode ray tubes	The fluorescent coating shall be removed
Gas discharge lamps	The mercury shall be removed

Hazardous waste storage and treatment

- 2.4.6 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.

2.5 Improvement programme

- 2.5.1 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.
- 2.5.2 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.

2.6 Landfill Engineering

- 2.6.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.6.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and the Environment Agency has confirmed that it is satisfied with the cell layout drawing.
- 2.6.3 The construction of a new cell 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.
- 2.6.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Environment Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.6.5 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.
- 2.6.6 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.

- 2.6.7 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant landfill infrastructure, or other time period agreed in writing with the Environment Agency.
- 2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 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.
- 2.6.9 For the purposes of conditions 2.6.1, 2.6.2, 2.6.4 and 2.6.5, 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.
- 2.6.10 Where the Environment Agency has required further information under condition 2.6.9(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.

2.7 Waste acceptance

- 2.7.1 For the following activities referenced in schedule 1, table S1.1, A1 to A8, wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 2, table S2.1 or S2.3; and
 - (b) they are non-hazardous waste or asbestos and construction materials containing asbestos and
 - (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm); and
 - (d) they are not shredded used tyres; and
 - (e) they are not liquid waste (including waste waters but excluding sludge); and
 - (f) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown; and
 - (g) all the relevant waste acceptance procedures have been completed; and
 - (h) they fulfil the relevant waste acceptance criteria; and
 - (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and
 - (j) they are wastes which have been treated, except for: inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment, and
 - (k) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.7.2 Wastes 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.
- 2.7.3 For the following activities referenced in schedule 1, table S1.1, A1 to A8, asbestos containing wastes and construction materials containing asbestos shall only be disposed of with other suitable

wastes and not in cells containing biodegradable non-hazardous waste. Asbestos waste and construction material containing asbestos must meet the relevant waste acceptance criteria and must be covered daily and before each compaction operation with appropriate material.

- 2.7.4 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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 2.7.1.
- 2.7.5 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.
- 2.7.6 For the following activities referenced in schedule 1, table S1.1, A1 to A8, the operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.7.7 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing 6026/PERMIT/08.
- 2.7.8 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1, table S1.4.
- 2.7.9 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 recovery 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.
- 2.7.10 The operator shall maintain and implement a system to record the disposal location of any hazardous waste.

2.8 Leachate levels

- 2.8.1 The limits for the level of leachate listed in schedule 3, table S3.1 shall not be exceeded.

2.9 Closure and aftercare

- 2.9.1 The operator shall maintain a closure and aftercare management plan.

2.10 Landfill gas management

- 2.10.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
 - (b) control the migration of landfill gas.
- 2.10.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas 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, tables S3.2, S3.3 and S3.6.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1, A1 to A8, the limits given in schedule 3, table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
 - (a) between nine and six months prior to the fourth anniversary of the granting of the permit; and
 - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.
- 3.1.6 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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 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 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.
- 3.2.3 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 and any other actions specified in the following tables in schedule 3 to this permit:

- (a) leachate specified in tables S3.1 and S3.11;
- (b) point source emissions specified in tables S3.2, S3.3 and S3.6;
- (c) groundwater specified in tables S3.4 and S3.9;
- (d) landfill gas specified in tables S3.5, S3.8 and S3.10;
- (e) surface water specified in table S3.12;
- (f) particulate matter specified in table S3.7;
- (g) landfill gas in ambient air in table S3.13;
- (h) process monitoring specified in table S3.14;
- (i) bioaerosol monitoring in table S3.15; and
- (j) ambient air monitoring specified in table S3.16.

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 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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;
- (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.

- 3.5.4 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.
- 3.5.5 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 S3.3, S3.6 and S3.14 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 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.
- 3.6.2 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.

3.7 Fire prevention

- 3.7.1 For the following activities referenced in schedule 1, table S1.1, A9 to 11, 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.
- 3.7.2 For the following activities referenced in schedule 1, table S1.1, A9 to 11, the operator shall:
- (c) 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;
 - (d) 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) the results of groundwater monitoring;
 - (ii) sub-surface landfill gas monitoring;

- (iii) leachate levels, quality and quantities;
- (iv) landfill gas generation and collection;
- (v) waste types and quantities;
- (vi) the location of hazardous waste deposits; and
- (vii) the specification and as built drawings of the basal, sidewall and capping engineering systems.

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 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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, with the exception of 4.2.2(c) that must be provided by the end of February 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 this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this installation 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 energy consumed at the site, reported in the format set out in schedule 4, table S4.3;
- (c) the annual production/treatment set out in schedule 4, table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (e) 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;
- (f) 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;
- (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and
- (h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and 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) using the forms specified in schedule 4, table S4.4 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 (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 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.

4.4.3 For the following activities referenced in schedule 1, table S1.1, A9 to A11, 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	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	D5 –Specially engineered landfill and R10 – Land treatment resulting in benefit to agriculture or ecology	Section 5.2 Part A(1)(a), The disposal of waste in a landfill	Landfill for non-hazardous waste and landfill restoration	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling. Landfill mining activities shall be confined to the area outlined in blue in the site plan in schedule 7. Waste shall only be disposed of within the areas outlined in pink and orange in the site plan in schedule 7.
A2	D5 –Specially engineered landfill R10 – Land treatment resulting in benefit to agriculture or ecology	Section 5.2 Part A(1)(a), The disposal of waste in a landfill	Landfill for hazardous waste (asbestos)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling. Waste shall only be disposed of within the areas outlined in pink and orange in the site plan in schedule 7.
Directly Associated Activities				
A3	R1 – use principally as a fuel to generate energy	-	Pre-treatment and utilisation of landfill gas for energy recovery in an appliance with a rated thermal input < 50MW	e.g. Treatment and utilisation of landfill gas arising from the landfill.
A4	D8 – Biological treatment of waste	-	Treatment of leachate in a facility with a capacity of <50 t/day	Leachate arising from the landfill.
A5	N/A	-	Temporary storage of waste (leachate)	Leachate arising from the landfill.

Table S1.1 activities				
Activity reference	WFD Annex I and II operations (where applicable)	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A6	N/A	-	Flaring of landfill gas for disposal in an appliance	Landfill gas arising from the landfill.
A7	D6 – release to water body except seas/oceans	-	Discharges of site drainage from the landfill	From surface water management system to point of entry to controlled waters.
A8	N/A	-	Storage of fuel for operation of plant and equipment.	Fuel storage tank.
Waste operations				
Activity reference	WFD Annex I and II operations		Limits of specified activity	
A9	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>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).</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13.</p> <p>D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p> <p>R4: Recycling/reclamation of metals and metal compounds.</p> <p>R5: Recycling/reclamation of other inorganic compounds.</p>		<p><u>Waste Transfer Station</u></p> <p>Treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing or compaction of non-hazardous waste into different components for disposal (no more than 50 tonnes per day) or recovery.</p> <p>The maximum quantity of hazardous waste received or stored at the site for disposal shall not exceed, individually or aggregated, 10 tonnes per day.</p> <p>The capacity of the site for hazardous waste subject to an R5 activity shall not exceed 10 tonnes per day.</p> <p>There shall be no treatment of asbestos waste.</p> <p>No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste codes 16 01 03 and 19 12 04) shall be stored at the site.</p> <p>Waste types as specified in Table S2.4.</p>	

Table S1.1 activities		
Activity reference	WFD Annex I and II operations	Limits of specified activity
A10	<p>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).</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p>	<p><u>Composting</u></p> <p>The storage, physical treatment, composting and maturation shall take place on an impermeable pavement with sealed drainage.</p> <p>The storage, physical treatment and maturation of wastes under anaerobic conditions shall be prevented, or where that is not practicable, minimised.</p> <p>Waste types subject to composting operations as specified in Table S2.5.</p>
A11	<p>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).</p> <p>R5: Recycling/reclamation of other inorganic compounds.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p>	<p><u>Bioremediation</u></p> <p>The storage, physical treatment and bioremediation shall take place on an impermeable pavement with sealed drainage.</p> <p>The maximum quantity of hazardous waste received or stored at the site for disposal shall not exceed, individually or aggregated 10 tonnes per day.</p> <p>The capacity of the site for hazardous waste subject to an R5 activity shall not exceed 10 tonnes per day.</p> <p>Waste types subject to bioremediation operations as specified in Table S2.6.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/SP3239BB/A001	The response to questions 2.1, 2.2, 2.3, 2.5 and 2.11 given in Part B of the Application, excluding answers to questions 2.2.9, 2.2.10 and 2.2.31	01/04/2005
	Environmental Setting and Installation Design (ESID) in Section 1 of Volume 1 of the Application	01/04/2005, amendments received 06/12/2005, 22/12/2005, 22/02/2006, 09/05/2006 & 28/07/2006
	Regulatory Specification in Section 2 of Volume 1 of the Application	01/04/2005, amendments received 08/11/2005 & 22/02/2006
	Amenity and Health Risk Assessment in Section 5 of Volume 1 of the Application	08/11/2005

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/SP3239BB/A001 Drawings – all 62026 series diagrams associated to application and first Permit.	62026/PERMIT/02	22/02/2006
	62026/PERMIT/03	01/04/2005
	62026/PERMIT/04	01/04/2005
	62026/PERMIT/05	08/11/2005
	62026/PERMIT/06 (Sheet 1)	22/02/2006
	62026/PERMIT/06 (Sheet 2)	22/02/2006
	62026/PERMIT/07	01/04/2005
	62026/PERMIT/08	01/04/2005
	62026/PERMIT/09	01/04/2005
	62026/PERMIT/10	01/04/2005
	62026/PERMIT/11	01/04/2005
	62026/PERMIT/12	01/04/2005
	62026/PERMIT/13	01/04/2005
	62026/PERMIT/16	22/02/2006
62026/PERMIT/17	08/11/2005	
Variation Application DP3138XM EPR/SP3239BB/V002	The response to questions given in Part C of the Application, dated 29/11/07	22/01/2008
Variation application EPR/WP3498NB/V004	Part C2, Section 5C – Non-technical summary Part C4, Table 3a – Technical standards	14/12/2010
Response to Schedule 5 Notice dated 10/03/11 EPR/WP3498NB/V004	Response to question 5 – VOC and Leachate Management Plan, monitoring points as shown on site plan reference 7888110177/EPR02.	04/04/2011

Table S1.2 Operating techniques		
Description	Parts	Date Received
Additional information received in response to email dated 13/04/11 EPR/WP3498NB/V004	Trigger levels for benzene	15/04/2011
Variation Application EPR/SP3239BB/V006	Reed Bed Operations and Discharge document, dated November 2012 – Sections 3 and 5	06/02/2013
Variation Application EPR/SP3239BB/V006	Folly Farm Reed Bed Leachate Treatment Plant Inspection and Maintenance Regime, dated January 2013	06/02/2013
Variation Application EPR/SP3239BB/V006	Drawing 31283_PERMVAR_01 Photo Location Plan	06/02/2013
EPR/DB3103GA	Waste Management Licence EAAWML70687 Site Closure Report	April 2013
EPR/DB3103GA	Landfill Mining and Reclamation Plan (ref: FFLFMR01/July 2014)	01/07/2014
EPR/DB3103GA	Pre-Commencement Plan (Issue 1/January 2015/AG),	01/01/2015
Variation Application EPR/SP3239BB/V011	Sections 1.1, 1.3, 3.2 and 3.3 of the Folly Farm (Waste Management Facility) Normal Permit Variation Application Supporting Statement & non-technical summary (Report No. 10004-R33) and Technical Description and Assessment of the Application in response to section 3a – technical standards, Part C3 of the application form.	Duly Made 15/05/2019
Response to Schedule 5 dated 20/06/19	ICOP Clarification – calculation of action limits for CO ₂	20/06/2019
	Confirmation of Calculation Approach	01/07/2019
	Landfill Gas Management Plan Environmental Monitoring Plan (Nov 2018)	03/07/2019

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1	The operator shall submit to the Environment Agency for approval details of the waste types, quantities and acceptance criteria for wastes that are and will be accepted on site for the purpose of landfill restoration.	31/12/15 unless otherwise agreed in writing by the Environment Agency.
2	The operator shall submit to the Environment Agency for approval, a revised site layout plan which shows all monitoring points onsite.	Completed.
3	The operator shall undertake a consolidated hydrogeological risk assessment (HRA) review which takes into account the consolidation of the closed landfill and the P42 landfill. Upon completion of the HRA review the operator shall provide the results to the Environment Agency and include the following: <ul style="list-style-type: none"> • Review of trigger and control limits; • Suitability of location of groundwater boreholes; and • Update to the leachate and groundwater monitoring plan (MEPP) to include all agreed monitoring points. 	Completed.
4	The operator shall perform the monitoring listed below on the in-waste boreholes BH41 and BH42 at monthly intervals for a period of 12 months. On completion of the monitoring, the operator shall submit a written gas risk assessment to the Environment Agency for written approval. The operator's risk assessment shall include proposals for the control of gas if deemed to be outside acceptable limits, as agreed with the Environment Agency, although immediate mitigating action must be taken by the operator if monitoring indicates a present actual or potential threat of environmental pollution. <ul style="list-style-type: none"> • Gas composition and relative pressure. • Gas flow measurements. • Point source emission survey using FID or equivalent gas detector. • Ground level surface emission survey of a radius of at least 15m from BH41 and BH42. <p>The first three monthly monitoring results shall be submitted to the Environment Agency on a monthly basis, at which time a review of the monitoring schedule will be made with the possibility of the reporting changing to quarterly. At this time the necessity for BH42 monitoring will also be reassessed.</p>	Completed.
5	The operator shall update the Working Plan dated November 2010 and submit the revised plan to the Environment Agency for written approval. The updated plan shall take into consideration activities numbered A9 – A11 in Table S1.1.	Superseded by the Environmental Management System.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	The operator shall implement the plan as approved and from the date stipulated by the Environment Agency.	
6	The operator shall submit to the Environment Agency for agreement a specification for a higher capacity and discharge rate controlled surface water management sump. Once the specification has been agreed the operator shall replace the existing surface water management sump and associated infrastructure with the increased capacity sump as per the agreed specification.	Completed.

Table S1.4 Annual waste input limits (Activities A1 and A2)	
Category	Limit Tonnes/ Year
Non-hazardous waste	80,149
Inert waste	18,000
Asbestos waste and construction material containing asbestos	18,000
Waste for restoration	As agreed in accordance with IC1 in table S1.3

Schedule 2 – List of permitted wastes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
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 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 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 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 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 05	saturated or spent ion exchange resins

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (Activity A1)	
Waste code	Description
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
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 40	metals
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 07	bulky waste

Table S2.2 Permitted waste types accepted for restoration (Activities A1 and A2)	
Waste code	Description
As agreed in accordance with improvement condition IC1 in table S1.3.	

Table S2.3 Permitted waste types for disposal in the asbestos cell (Activity A2)	
Waste code	Description
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 06	INSULATION MATERIALS AND ASBESTOS-CONTAINING CONSTRUCTION MATERIALS
17 06 01*	insulation materials containing asbestos
17 06 05*	construction materials containing asbestos

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	wastes from mineral excavation
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 07	wastes from forestry
02 01 10	waste metal
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	materials unsuitable for consumption or processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	materials unsuitable for consumption or processing
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 05	wastes from the dairy products industry

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	wastes from the leather and fur industry
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 09	wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	sands from fluidised beds
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 09	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
10 09 08	casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 11*	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 07	sludges and filter cakes from gas treatment

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
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

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	end-of-life tyres
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
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 01*	bituminous mixtures containing coal tar
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 03 03*	coal tar and tarred products
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 03*	soil and stones containing dangerous substances
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05*	dredging spoil containing dangerous substances
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 07*	track ballast containing dangerous substances
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	insulation materials and asbestos-containing construction materials
17 06 01*	insulation materials containing asbestos
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05*	construction materials containing asbestos ¹

¹ As far as the landfilling of waste is concerned, Member States may decide to postpone the entry into force of this entry until the establishment of appropriate measures for the treatment and disposal of waste from construction material containing asbestos. These measures are to be established according to the procedure referred to in Article 17 of Council Directive 1999/31/EC on the landfill of waste (OJ L 182,16.7.1999,p.1) and shall be adopted by 16 July 2002 at the latest.'

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
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 03*	other construction and demolition wastes (including mixed wastes) containing dangerous substances
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 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 05	saturated or spent ion exchange resins
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06

Table S2.4 Permitted waste types and quantities for the Waste Transfer Station (Activity A9)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	140,000 tonnes per year, no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11.
Waste code	Description
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste

Table S2.5 Permitted waste types and quantities for Open Windrow Composting (Activity A10)	
Waste Characteristics	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Catering waste and other wastes containing animal by-products covered by the Animal By-Products Regulations 2005 and The Animal By-Products (Wales) Regulations 2006 • Wastes that are in a form which is liquid • Hazardous wastes
Maximum quantity	No more than 50 tonnes per day of non-hazardous treatment waste to be aggregated across activities A10 and A11 if composting for disposal. Less than 75 tonnes per day of non-hazardous waste treatment aggregated across Activities A10 and A11 if composting for recovery or a mix of disposal and recovery.
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw)
02 01 07	wastes from forestry (comprising wood and plant tissue)
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	materials unsuitable for consumption or processing
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02	wastes from the textile industry
04 02 10	organic matter from natural products (for example grease, wax)
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 03	wooden packaging

Table S2.5 Permitted waste types and quantities for Open Windrow Composting (Activity A10)	
Waste Characteristics	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Catering waste and other wastes containing animal by-products covered by the Animal By-Products Regulations 2005 and The Animal By-Products (Wales) Regulations 2006 • Wastes that are in a form which is liquid • Hazardous wastes
Maximum quantity	No more than 50 tonnes per day of non-hazardous treatment waste to be aggregated across activities A10 and A11 if composting for disposal. Less than 75 tonnes per day of non-hazardous waste treatment aggregated across Activities A10 and A11 if composting for recovery or a mix of disposal and recovery.
Waste code	Description
15 01 05	composite packaging
15 01 09	textile packaging
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02	wood, glass and plastic
17 02 01	wood (untreated)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 06	dredging spoil other than those mentioned in 17 05 05
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 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost
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 07	wood other than that mentioned in 19 12 06
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 38	wood other than that mentioned in 20 01 37
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 03	other municipal wastes
20 03 02	biodegradable waste from markets

Table S2.6 Permitted waste types and quantities for Bioremediation (Activity A11)	
Waste Characteristics	Waste having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either sludge or liquid
Maximum quantity	No more than 10 tonnes per day of hazardous waste treatment (Activity A11), no more than 50 tonnes of hazardous waste to be stored for onward treatment or disposal at any one time, aggregated across Activities A9 and A11. No more than 50 tonnes per day of non-hazardous waste treatment to be aggregated across activities A10 and A11 if treating for disposal. Less than 75 tonnes per day aggregated across Activities A10 and A11 if treating for recovery or a mix of disposal and recovery.
Waste code	Description
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 03*	soil and stones containing dangerous substances (hydrocarbons only)
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05*	dredging spoil containing dangerous substances (hydrocarbons only)
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 07*	track ballast containing dangerous substances (hydrocarbons only)
17 05 08	track ballast other than those mentioned in 17 05 07

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements			
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring standard and method
Operational Cells or Phases (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6)			
Leachate compliance and monitoring points LM1, LM2b, LM5, LM7 and LM8 as identified on Drawings 62026/PERMIT/05 and 31823_COL_06 or as cell activity reaches these points and/or as agreed within the CQA plan for each sub cell constructed	1 m above cell base	Monthly	As specified in Environment Agency Guidance LFTGN02 (February 2003) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
Non Operational Cells or Phases (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition, 2.6)			
Leachate compliance and monitoring points --	--	--	As specified in Environment Agency Guidance LFTGN02 (February 2003) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
Note 1 – updated June 2014 on www.gov.uk			

Table S3.2 Point source emissions to air – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill gas Engine(s) (once installed)	Oxides of Nitrogen	Gas utilisation plant	500 mg/m ³	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	CO		1400 mg/m ³			
	Total VOCs		1000 mg/m ³			

Table S3.2 Point source emissions to air – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill Gas Flare(s) (once installed)	Oxides of Nitrogen	Landfill Gas Flares	150 mg/m ³	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency. Monitoring is unnecessary where the flare is active for <10% of the year.
	CO		50 mg/m ³			
	Total VOCs		10 mg/m ³			

Table S3.3 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
SW C as identified on Drawing 31283_PERMV AR_01 Photo Location Plan	Suspended Solids	Reed Bed Treatment Facility	30 mg/l	Spot sample	Monthly	In accordance with the Agency's Technical Guidance Note (Monitoring) M18 or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	BOD		20 mg/l			
	Ammoniacal Nitrogen		20 mg/l			
	Chloride		500 mg/l			
	Volume		25 m ³ /day	Spot flow measurement		

Table S3.4 Groundwater – emission limits and monitoring requirements						
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method	
Down gradient locations BH32, BH33 & BH35 as identified on Drawing 31823_COL_06 ¹	Ammoniacal Nitrogen	0.39 mg/l	Spot Sample	Monthly	As detailed in Appendix 5 of ESID Report 'Groundwater Monitoring Plan'.	
	Chloride	250 mg/l				

Table S3.4 Groundwater – emission limits and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
BH40, BH41 & BH42 as identified on Drawing 31823_COL_06 ¹	Ammoniacal Nitrogen	No Limit		Monthly	
	Chloride	No Limit			
¹ Drawing 31823_COL_06 to be maintained and updated annually					

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements					
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method	
BH 2, BH4, BH 7, BH 8, BH 9, BH13b, BH18, BH21, BH22, BH33, BH35, BH40 as identified on Drawing 31823_COL_06 [Note 1]	Methane	1 %v/v	Monthly	As per LFTGN03 (Sept 2004) ^{Note 3} 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	no limit ^{Note 2}			
	Oxygen	no limit			
	Atmospheric pressure	no limit			
	Differential pressure	no limit			
BH15 identified on Drawing 31823_COL_06 [Note 1]	Methane	9.7 %v/v			
	Carbon dioxide	no limit ^{Note 2}			
	Oxygen	no limit			
	Atmospheric pressure	no limit			
	Differential pressure	no limit			
BH32 identified on Drawing 31823_COL_06 [Note 1]	Methane	7.6 %v/v			
	Carbon dioxide	no limit ^{Note 2}			
	Oxygen	no limit			
	Atmospheric pressure	no limit			
	Differential pressure	no limit			

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
BH41, BH42* as identified on Drawing 31823_COL_06 [Note1]	Methane	no limit no limit	Monthly	
	Carbon dioxide	no limit ^{Note 2}		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
<p>Note 1 – Drawing 31823_COL_06 to be maintained and updated annually Note 2 – Action Level given in LGMP Note 3 – updated June 2014 on www.gov.uk * BH41 and BH42 are in-waste monitoring boreholes</p>				

Table S3.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
SWB, SWB2 and SWB-P42 as identified on Drawing 31283_PERMVAR_01 Photo location Plan	Influent to Reed Bed (Total)	Leachate	25m ³ /day	Spot sample	Monthly	In accordance with the Agency's Technical Guidance Note (Monitoring) M18 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	BOD		150 mg/l			
	Ammoniacal Nitrogen		70 mg/l			

Table S3.7 Particulate matter in ambient air - monitoring requirements					
Monitoring Point Ref. /Description	Parameter	Limit	Reference Period	Monitoring Frequency	Monitoring Standard or Method
20m downwind of asbestos disposal cell	Asbestos Fibres	Where total fibre concentration exceeds 0.01 fibres/ ml in any sample, that sample must be submitted for electron microscopy to confirm the concentration of asbestos fibres present	2 hours	Twice per year or every 5000 tonnes asbestos deposited, whichever is greater	While asbestos is being deposited. <ul style="list-style-type: none"> • Pumped sampling • 1m above ground level • Flow rate = 4 litres/ minute • Minimum sample volume = 480 litres • Filter pore size = 1.2µm Asbestos fibre limit of detection = 0.001 fibres/ ml
50m upwind of asbestos disposal cell	Asbestos Fibres		2 hours	During all downwind monitoring	
Site boundary downwind of asbestos disposal cell	Asbestos Fibres		2 hours	Minimum twice per year.	
Along site perimeter and/or complainants property and/or other locations as agreed with the Environment Agency in writing	Deposited dust	200 mg/m ² per day	-	To commence within one month of receipt of complaint	For routine monitoring: Frisbee omnidirectional deposit gauge. Where information is essential on the direction of the dust source: BS 1747 directional deposit gauge
At sensitive receptors and/or along site perimeter and/or other locations as agreed with the Environment Agency in writing	Suspended particulates	24 hour average PM ₁₀ concentration not to exceed 50 µg/m ³ more than 35 times per year; annual average PM ₁₀ concentration not to exceed 40 µg/m ³	-	To commence within one month of receipt of complaint	PM ₁₀ survey using filter sampling train following major procedural requirements of CEN method EN12341
Minimum of three separate monitoring points (one upwind of the site, one downwind of the site and one adjacent to nearest receptor) as agreed with the Environment Agency in writing	Bioaerosols	As detailed in section 3.9 of the Regulatory Specification in Section 2 of the Application and Table 6 of the Amenity and Health Risk Assessment in Section 5 of the Application	-	As detailed in section 3.9 of the Regulatory Specification in Section 2 of the Application	As detailed in section 3.9 of the Regulatory Specification in Section 2 of the Application and Table 6 of the Amenity and Health Risk Assessment in Section 5 of the Application

Table S3.8 Landfill gas emissions from capped surfaces for cells that have accepted non-hazardous biodegradable waste – monitoring requirements			
Monitoring point Ref. /description	Parameter	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Temporarily capped zone	Methane concentration	Every 12 months	As per LFTGN 07 (v2 2010) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Whole site	Total Methane emission	As agreed with the Environment Agency	As per LFTGN 07 (v2 2010) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Uncapped areas	Methane concentration	Every 12 months	As agreed with the Environment Agency based on the wording of revised LFTGN 07 or landfill sector guidance or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Note 1 – updated June 2014 on www.gov.uk			

Table S3.9 Groundwater – other monitoring requirements			
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method
Up gradient MEPP – operational area	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) ^{Note 1} , Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, April 2010), or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Total Alkalinity, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, Chromium, Copper, Iron, Lead, Nickel, Zinc, Manganese	Annually	
	Hazardous substances	Annually for first six years of operation	
Up gradient MEPP (BH2, BH41, BH42)	pH, Electrical Conductivity, Temperature, Ammoniacal Nitrogen, Chloride, Alkalinity (CaCO ₃), Calcium, Sodium, Magnesium, Potassium	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Manganese, Copper, Lead, Chromium, Nickel, Cadmium, Zine, Iron, Sulphate (SO ₄)	Annually	
Up gradient MEPP	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation	

Table S3.9 Groundwater – other monitoring requirements			
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method
Down or cross gradient MEPP – operational area	Water level, Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , <u>risk assessments for your environmental permit</u> (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.
	Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	
	Hazardous substances	Annually for first six years of operation then every two years	
MEPP	Base of monitoring point (mAOD)	Annually	
Down gradient MEPP (BH35, BH33, BH40)	pH, Electrical Conductivity, Temperature, Ammoniacal Nitrogen, Chloride, Alkalinity (CaCO ₃), Calcium, Sodium, Magnesium, Potassium	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J, version 2, April 2010), or such other subsequent guidance as may be agreed in writing with the Environment Agency. After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen.
	Manganese, Copper, Lead, Chromium, Nickel, Cadmium, Zine, Iron, Sulphate (SO ₄)	Annually	
	Base of monitoring point (mAOD)	Annually	
Note 1 – updated June 2014 on www.gov.uk			

Table S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system in cells for non-hazardous waste	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly until gas extraction commences	Calibrated handheld monitoring instrument	<p>For cells or phases which have no active gas extraction.</p> <p>Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted.</p> <p>Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.</p>
	Hydrogen Sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3, 2010) ^{Note 1} or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	<p>For cells or phases which have no active gas extraction.</p> <p>Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.</p> <p>Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans</p>

Table S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
One in waste borehole per cell and / or leachate wells for separate cells for stable non-reactive hazardous waste, asbestos or gypsum on landfills for non-hazardous waste	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly until gas extraction commences	Calibrated handheld monitoring instrument	For cells or phases which have no active gas extraction. Gas extraction system shall be installed and extraction commenced once monitoring shows onset of methane production in waste at a rate that can be sustainably extracted. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring.
	Hydrogen Sulphide Hydrogen	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3, 2010) ^{Note 1} or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	For cells or phases which have no active gas extraction. Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring. Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
One in waste borehole or one leachate well per cell for separate cells for stable non-reactive hazardous waste, asbestos or gypsum on	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (V3, 2010) ^{Note 1} or a trace gas characterisation method agreed with the Environment Agency or such other subsequent guidance as may be agreed in writing with the Environment Agency	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.

Table S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
landfills for non-hazardous waste				
Gas collection system at well control valve, manifolds (if applicable) and strategic points on gas system	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Gas flow rate or suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Monthly or at such other frequency as may be agreed in writing with the Environment Agency.	Calibrated handheld monitoring instrument	Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken. Where the concentration of carbon monoxide exceeds 100ppm then further investigation shall be undertaken. Record the ambient air temperature and whether the ground is: <ul style="list-style-type: none"> • waterlogged • frozen • snow covered.
Gas collection system at well control valve	Hydrogen Sulphide	Six monthly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (V3, 2010) ^{Note 1} or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency.	Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
Input to flare or LFG Utilisation Compound	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (V3, 2010) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.	The concentration of trace gas components shall be assessed against the assumptions made in the Landfill gas risk assessment and dispersion modelling.

Table S3.10 Landfill gas – other monitoring requirements				
Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Input to flare or LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Weekly		Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken.
Landfill gas Engine(s) (once installed)	Temperature	As per LFTGN05 (V2, March 2011) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency.	
Landfill Gas Flare(s) (once installed)	NOx and CO	Quarterly	In accordance with Appendix C of LFTGN08, (V2, 2010) ^{Note 1} or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Where monitoring using hand-held, electrochemical equipment indicates an exceedance of the emissions standards specified in table S3.2, these shall be used as action levels and the operator shall investigate the cause and take appropriate measures to reduce emissions.
Note 1 – updated June 2014 on www.gov.uk				

Table S3.11 Leachate – other monitoring requirements				
Monitoring point reference or description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Operational Cells or Phases (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.6)				
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Quarterly	At leachate compliance points as listed in table S3.1.	None
MEPP	Hazardous substances	Annually	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , <u>risk assessments for your environmental permit (www.gov.uk)</u> , or such other subsequent guidance as may be agreed in writing with the Environment Agency	
MEPP	Depth to base (mAOD)	Annually		
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.6)				
MEPP	Ammoniacal Nitrogen, Arsenic, BOD, Cadmium, Calcium, Chloride, Chromium, COD, Copper, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Total Alkalinity, Total Sulphates, Zinc	Annually	At leachate compliance points as listed in table S3.1.	None
MEPP	Hazardous substances	Once every four years	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , <u>risk assessments for your environmental permit (www.gov.uk)</u> , or such other subsequent guidance as may be agreed in writing with the Environment Agency	
MEPP	Depth to base (mAOD)	Annually		
Note 1 – updated June 2014 on www.gov.uk				

Table S3.12 Surface water – other monitoring requirements				
Monitoring Point Ref./Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
MEPP	Ammoniacal Nitrogen Chloride Electrical conductivity pH Suspended solids Visual Oil and Grease	Monthly	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) ^{Note 1} , risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Table S3.13 Ambient air – other monitoring requirements					
Monitoring Point Ref./Description	Parameter	Limit (including unit)	Monitoring frequency	Monitoring standard or method	Other specifications
Installation boundary	Methane	10 ppmv	Spot Sample	Monthly	Flame ionisation detector
	Hydrogen sulphide	10 ppbv		On exceedance of the methane limit	As agreed with the Environment Agency in writing.

Table S3.14 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Internal for each composting batch during sanitisation stage	Temperature	At least daily	Temperature probe	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis or as agreed in writing by the Environment Agency.
	Moisture	None specified	--	
Internal for each composting batch during stabilisation stage	Temperature	At least weekly	Temperature probe	
	Moisture	None specified	--	

Table S3.14 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Waste reception building; Storage tank(s); Maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Storage tank(s)	Integrity checks	Weekly	Visual assessment	--

Table S3.15 Bioaerosol monitoring requirements					
Location or description of point of measurement	Parameter	Bioaerosol threshold limits CFU m⁻³	Monitoring frequency	Monitoring standard or method	Other specifications
At a minimum of three separate locations, as described in the Industry Standard Protocol	Total bacteria	1000	Quarterly	In accordance with the Industry Standard Protocol, and, for gram-negative bacteria, together with the Environment Agency's "Guidance on the evaluation of bioaerosol risk assessments for composting facilities".	As described in the Industry Standard Protocol, including all the additional data requirements specified therein.
	Aspergillus Fumigatus	500			

Table S3.16 Bioremediation ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Monitoring points as shown on site plan 7888110177/EPR02. Downwind of operations along the boundary of Area A3	Benzene NMVOC	Daily during bioremediation	Photo Ionization Detector (PID)	Monitoring equipment shall be available on site and used as required to ensure compliance with the permit. Calibration in accordance with the manufacturer's guidelines.

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
Leachate and/or groundwater level As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to air As specified by schedule 3, table S3.2	Every 12 months	31 December
Point source emission to water (other than sewer) As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to sewer, effluent treatment plant, tankering or other off site transfer As specified by schedule 3, table S3.6	Every 3 months	31 March, 30 June, 30 September, 31 December
Particulate matter in ambient air. As required by schedule 3, table S3.7	Every 6 months	30 June, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.8	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.9	Every 3 months	31 March, 30 June, 30 September, 31 December
Other landfill gas monitoring As specified by schedule 3, table S3.10	Every 3 months	31 March, 30 June, 30 September, 31 December
Trace gas monitoring	Every 12 months	31 December
Other leachate monitoring As specified by schedule 3, table S3.11	Every 12 months	31 December
Hazardous substances	Every 12 months	31 December
Other surface water monitoring As specified by schedule 3, table S3.12	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	Every 12 months	31 December
Other ambient air monitoring As specified by schedule 3, table S3.13	Every 12 months	31 December
Bioaerosol monitoring as required by schedule 3, table S3.15	Every 3 months	31 March, 30 June, 30 September, 31 December

Table S4.1 Reporting of monitoring data		
Parameter	Reporting period*	Period ends
Bioremediation ambient air monitoring as required schedule 3, table S3.16	Every 3 months	31 March, 30 June, 30 September, 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: Annual production/treatment	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass; Accepted from offsite for treatment at any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation. Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring)	Normalised cubic metres/year % methane v/v
Methane generation rate (50%ile from a representative model)	m ³ /hr
Processed compost	Tonnes/year
Processed bioremediation waste	Tonnes/year

Table S4.3 Performance Parameters			
Parameter	Frequency of assessment	Annual total	Unit
Water usage	Annually		Tonnes or m ³
Energy usage (including for leachate treatment)	Annually		MWh of electricity or natural gas
Total raw material used	Annually		Tonnes

Table S4.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Bioaerosols	As specified in the Industry Standard Protocol or other form as agreed in writing by the Environment Agency	29/09/2014
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	29/09/2014
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	29/09/2014
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014

Table S4.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	29/09/2014
Waste Return	E-waste Return Form	--
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	29/09/2014
Bioaerosol monitoring	As specified in the Industry Standard Protocol or other form as agreed in writing by the Environment Agency	29/09/2014
Ambient air monitoring	Form Air 1 or other form as agreed in writing by the Environment Agency. Monitoring results must be reported in a clear format which must include the trigger level (where appropriate) for the parameter that has been monitored.	29/09/2014

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 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.

“cell layout drawing” means:

- (a) A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:
 - (i) the location of the new cell on the site;
 - (ii) the proposed level (Above Ordnance Datum) of the base of the excavation;
 - (iii) the proposed finished levels of all containment and leachate drainage layers;
 - (iv) the positions of leachate management infrastructure; and
 - (v) the positions of landfill gas infrastructure (if appropriate).
- (b) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:
 - (i) changes to slope length and gradient within the cell;
 - (ii) new leachate or landfill gas infrastructure construction design;
 - (iii) slope stability issues such as new basal excavation level; and/or
 - (iv) depth of waste.

“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 New Cell or Landfill Infrastructure.

“CQA Validation Report” means the final “as built” construction and engineering details of the New Cell or 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 New Cell or 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 those 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 and listed in our Hydrogeological risk assessment guidance.

“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:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;
- lining within the installation.

within the site.

“LFTGN 05” means Environment Agency Guidance for monitoring enclosed landfill gas flares.

“LFTGN 07” means Environment Agency Guidance on monitoring landfill gas surface emissions.

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines.

“liquids” means any liquid other than leachate within the engineered landfill containment system.

“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.

“M2” means Environment Agency Guidance Monitoring of stack emissions to air.

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

“medicinal product” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

“MEPP” Monitoring and extraction point plan, required by condition 4.2.2(h) to specify extraction points and routine monitoring locations.

“new cell” means any new cell, part of a cell or other similar new area of the site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

“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.

“pests” means birds, vermin and insects.

“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.

“sustainably extracted” means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

“waste code” - See “List of Wastes”.

“WFD” means Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste [and repealing certain Directives] – the Waste Framework Directive.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

Where the following terms appear in the waste code list in Tables S2.1, S2.3, S2.4, S2.5, or S2.6 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;

‘polychlorinated biphenyls and polychlorinated terphenyls’ (‘PCBs’) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘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;

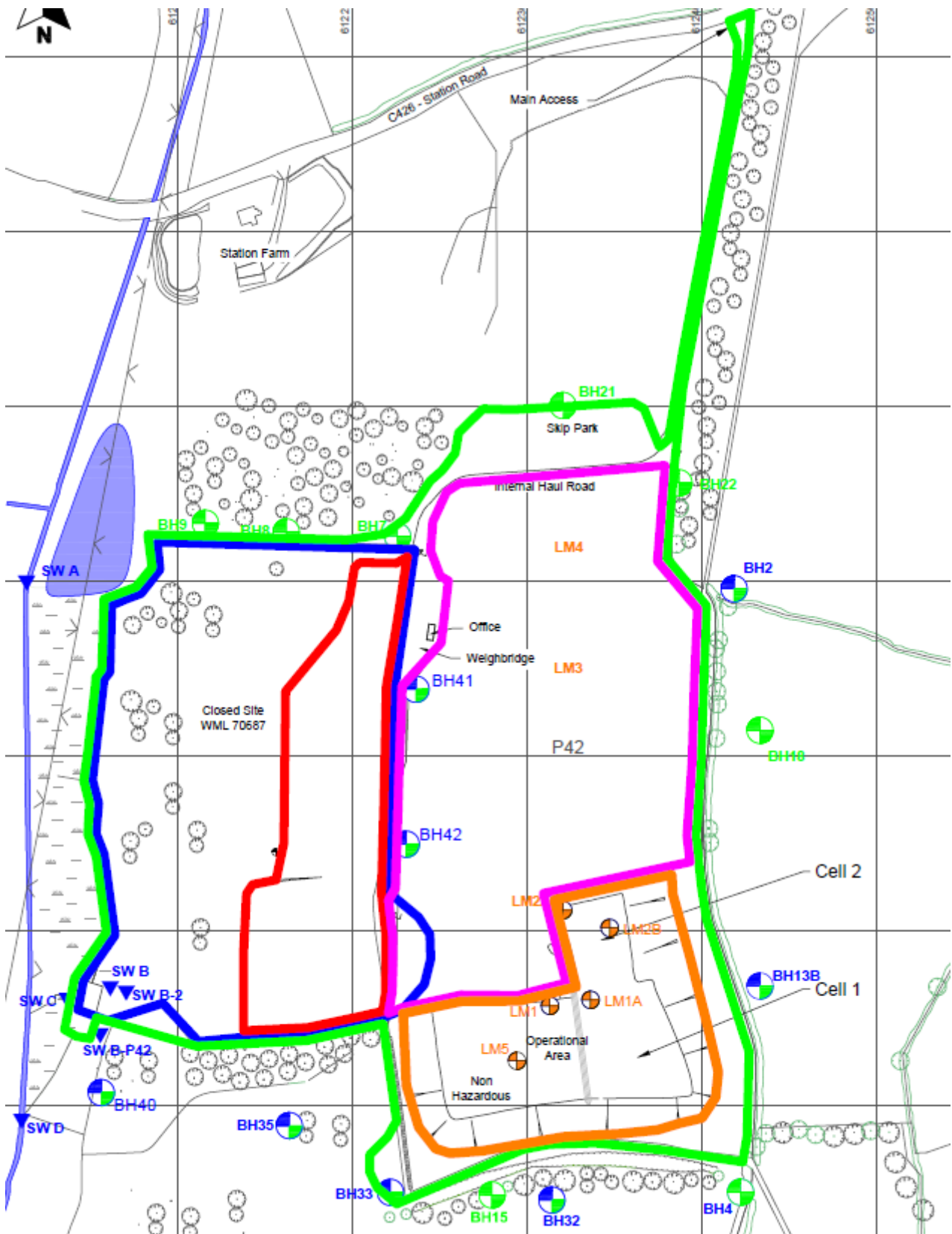
‘transition metals’ means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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



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