

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Augean South Limited

Thornhaugh Landfill Site Leicester Road Thornhaugh Wansford Peterborough PE8 6NH

Variation application number

EPR/RP3133PP/V006

Consolidated permit number

EPR/RP3133PP

Thornhaugh Landfill Site Permit number EPR/RP3133PP

Introductory note

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

The following notice gives notice of the variation of environmental permits A and B referred to in the status logs below and the replacement of those permits with a consolidated environmental permit. We have also issued this variation to consolidate the original permit A and subsequent variations. We have also updated the permit into the current EPR permit template using modern conditions.

The Environment Agency has a duty, under the Environmental Permitting (England and Wales) Regulations 2010, regulation 34(1), to periodically review permits. As a result of that review we have identified a number of necessary changes we must make to the permit to reflect current legislation and best practice. These changes principally relate to:

- The addition of a standard condition for landfill gas management at landfills that accept biodegradable waste;
- A change to the hydrogeological risk assessment condition so that reviews are undertaken every 6 years rather than every 4 years;
- Standard leachate and groundwater quality monitoring tables (schedule 3); and
- A standard reporting table (schedule 4).

The operator applied for a variation to their permit to make the following changes:

- To extend the current installation to include operation of landfilling in additional areas of land comprising Phases 1 and 2 (permitted under EAWML 70119) and in an area of land known as 'Bradshaw land' between Phases 4 and 7.
- To excavate wastes that have already been deposited in Phases 1 and 2 and waste materials present in Phases 4 and 7.
- To include a waste operation for sorting, screening and crushing of waste to recover materials prior to their removal from the site or use at site.
- To add temporary storage and handling of excavated waste as a directly associated activity (DAA).
- To remove the Carbon Dioxide compliance limits in accordance with the Industry Code of Practice on perimeter soil gas.

The 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 A: EPR/RP3133PP | | | |
|---|-----------------------|--|--|
| Description | Date | Comments | |
| Application received RP3133PP (EPR/RP3133PP/A001) | Duly made 09/11/04 | Application for disposal of non-hazardous waste in a landfill. | |
| Addendum to Application | Received May 2005 | | |
| Additional information received | 02/09/05 | | |
| Additional information received | 17/10/05 | | |
| Permit determined RP3133PP | 09/11/05 | Permit issued to Augean South Limited. | |

| Status log of the permit A: EPR/RP3133PP | | | | |
|---|-----------------------------------|--|--|--|
| Description | Date | Comments | | |
| (EPR/RP3133PP) Application UP3539LR (EPR/RP3133PP/V002) | Duly made 14/12/05 | Application to add landfilling of high sulphate bearing wastes, incorporate new improvement requirements and make changes to Carbon Monoxide emission limit in perimeter gas monitoring boreholes and odour condition. | | |
| Additional information received | January 2006 and February 2006 | | | |
| Additional information received | 23/02/06 | | | |
| Variation determined UP3539LR (EPR/RP3133PP/V002) | 22/05/06 | Variation issued. | | |
| Variation EPR/RP3133PP/V003 determined | 28/11/08 | Environment Agency variation to update the permit to new landfill template (version 4). Variation issued. | | |
| Application EPR/RP3133PP/V004 | Duly made 01/10/08 | Application to add burning of waste as a fuel as a directly associated activity and update some permit conditions to bring into line with site development. | | |
| Application EPR/RP3133PP/V005 | Duly made 17/12/09 | An administrative variation to revise condition 1.3 in respect of financial provision agreement. | | |
| Variation EPR/RP3133PP/V004 determined | 24/03/10 | Variation issued. | | |
| Variation EPR/RP3133PP/V005 determined | 30/03/10 | Variation issued. | | |
| Application EPR/RP3133PP/V006 (variation and consolidation) | Duly made 30/01/15 | Application to extend the site boundary, add a waste operation, amend CO ₂ compliance limits, update the permit to modern conditions and consolidate with EPR/FP3790NJ (EAWML 70119). | | |
| Additional information received | 30/01/15 | Additional information relating to waste operation landfill gas compliance limits and odour risk assessment. Submission of an additional fee. | | |
| Additional information received | 05/05/15 | Additional information relating to waste types, CO_2 accumulation, stability of the waste slopes, waste settlement, future waste streams, characterisation of materials and monitoring requirements. | | |
| Additional information received | 21/05/15 | Confirmation of engineered containment, and monitoring of infiltration through the cap for Phase 7A. | | |
| Additional information received | 25/08/15 | Additional information relating to Hydrogeological Risk Assessment (HRA), Landfill Gas Risk Assessment (LFGRA), settlement and its effect on capping and characterisation of materials. | | |
| Additional information received | 13/11/15 | Additional information relating to engineering design and Landsim modelling. | | |
| Additional information received | 26/01/16 | Confirmation of engineered containment, cap design and monitoring of infiltration through the cap for the cells 1, 2, 4 and 7. | | |

| Status log of the permit A: EPR/RP3133PP | | | |
|---|----------|---|--|
| Description | Date | Comments | |
| Environment Agency Landfill | 04/05/16 | Varied and consolidated permit issued in modern | |
| Sector Review 2013/2014 | | condition format. | |
| Permit reviewed | | | |
| Variation determined EPR/RP3133PP/V006 | | | |
| Permit EPR/RP3133PP | | | |
| (Billing ref. EP3733WX) | | | |

| Status log of permit B: EAWML 70119 | | | | |
|---|-----------------------|--|--|--|
| Description | Date | Comments | | |
| Waste Disposal Licence issued to Peterborough Quarries Limited EAWML 70119 (EPR/FP3790NJ/A001) | 07/11/77 | | | |
| Licence modified | 13/05/85 | | | |
| Licence modified | 09/07/85 | | | |
| Licence transferred to Midland Land Reclamation Limited | 19/05/92 | | | |
| Licence modified | 23/05/96 | | | |
| Licence modified | 26/03/97 | | | |
| Licence modified | 23/02/99 | | | |
| Licence modified and transferred to Atlantic Waste (Thornhaugh) Limited | 27/06/03 | | | |
| Licence modified | 28/11/03 | | | |
| Licence modified | 18/03/04 | | | |
| Variation FP3790NJ (EPR/FP3790NJ/V002) | 31/12/10 | Variation to introduce closure requirements of the Landfill Directive. | | |
| Application EPR/FP3790NJ/V003 (variation and consolidation) | Duly made 30/01/15 | Application to vary and update the permit to modern conditions. | | |
| Variation determined EPR/RP3133PP | 04/05/16 | Varied and consolidated permit issued in modern condition format. | | |

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit numbers

EPR/RP3133PP EPR/FP3790NJ (EAWML 70119)

Issued to

Augean South Limited ("the operator")

whose registered office is

4 Rudgate Court Walton Wetherby West Yorkshire LS23 7BF

company registration number 04636789

to operate a regulated facility at

Thornhaugh Landfill Site Leicester Road Thornhaugh Wansford Peterborough PE8 6NH

to the extent set out in the schedules.

The notice shall take effect from 04/05/2016.

The number of the consolidated permit is EPR/RP3133PP.

| Name | Date |
|--------------|----------|
| Mike Jenkins | 04/05/16 |

Authorised on behalf of the Environment Agency

Schedule 1

| Condition | Description of change | | |
|------------------------|---|--|--|
| 1.2.1 | Amended to reflect current financial provision arrangements in place. | | |
| 1.2.3 | Added to impose a new condition in respect of financial provision. | | |
| 2.1.2 | Added to ensure that waste authorised by waste operations are clearly distinguished from any other waste on the site. | | |
| 2.3.3, 2.3.4, 2.3.5 | Added to impose waste acceptance specifications to the wastes accepted and produced by waste operations. | | |
| 2.7.1 | Amended to add Tables S2.4, S2.5 and S2.6. | | |
| 4.3.3 | Added to impose separate notifications condition for waste operations. | | |
| 4.4.3 | Added to interpret a meaning of notification being made "without delay" in respect of waste operations. | | |
| Schedules | Description of change | | |
| Table S1.3 | Improvement requirement 1.1 moved to Table S1.4 Pre-operational measures for future development (IC1). | | |
| | Improvement requirement IC1.2 is now improvement requirement IC3. | | |
| | New improvement requirements IC1, IC2, IC4, IC5, IC6 and IC7 added. | | |
| Table S1.4 | Pre-operational requirement PO1 removed as not required. | | |
| | Pre-operational requirement PO2 removed as not required. | | |
| | New pre-operational requirements PO1 to PO5 added. | | |
| Table S1.5 | Amended to show gypsum waste as a separate waste stream. | | |
| Table S2.2 | Added to include waste types accepted for treatment. | | |
| Table S3.4 | Amended to include revised groundwater compliance limits and interim monitoring requirements. | | |
| Table S3.5 | Amended to remove Carbon Dioxide compliance limits. | | |

The following conditions were varied as a result of the application made by the operator:

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation. The following table summarises the latest changes to the landfill permit template, however the permit may contain more changes than this where the permit has not been varied to recent template conditions.

| Condition | Description of change |
|-------------------|--|
| 1.5 | Generic condition to reflect the requirements of the Waste Framework Directive. |
| 2.7.1(a) | Added reference to a specific table to clarify what wastes are permitted by which permitted activity. |
| 2.7.2 | Added to separately identify the waste types and quantities that can be accepted for restoration. |
| 2.10 | Revised gas management condition imposed for all landfills. |
| 3.1.1 | Generic condition imposed on all activities to simplify sub-conditions. |
| 3.1.4 to 3.1.5 | Revised conditions to reflect the terminology used by the Groundwater Directive for 'hazardous substances' and to require hydrogeological risk assessment reviews are submitted every 6 years rather than every 4 years. |

| Condition | Description of change | | | |
|------------|---|--|--|--|
| | Sub-condition that referred to emission of 'non-hazardous pollutants' deleted. Such emissions are regulated by condition 3.2. | | | |
| | Two sub-conditions that referred to limits in specific tables in schedule 3 deleted as they are now covered by 3.1.1. | | | |
| 3.6 | Revised generic pests condition imposed on all activities. | | | |
| 4.2.2 | Amended to ensure that information on 'annual production/ treatment' (Schedule 4, Table S4.2) is provided in February each year where annual reports may be submitted at other times of the year. | | | |
| 4.2.2(a) | Text expanded to clarify the details we require in an annual report. | | | |
| 4.2.2(h) | New condition requiring annual submission of a plan of monitoring and extraction locations with reference to monitoring tables in schedule 3 | | | |
| 4.3.1 | Generic notifications condition added. | | | |
| Schedules | Description of change | | | |
| Table S1.1 | Amended description of the landfill activity to clarify that this includes restoration. | | | |
| | Activity references amended to reflect changes introduced by Industrial Emissions Directive (2010/75/EU). | | | |
| Table S1.5 | Amended to clarify that restoration is a separate part of the activity unrelated to landfill cover. | | | |
| Schedule 2 | Standard list of wastes added. | | | |
| Schedule 3 | Monitoring and compliance tables have been re-ordered so that those with compliance limits appear first. | | | |
| | Standard monitoring frequency and parameters have been included for certain routine monitoring requirements. | | | |
| Table S3.6 | Specific requirements for monitoring asbestos fibres added, where necessary. | | | |
| Table S4.1 | Amended to only require regular reports of information that relate to compliance limits. | | | |
| Table S4.2 | Additional details of landfill gas extracted required to improve climate change data quality. | | | |
| Table S4.3 | Amended to include natural gas as an energy source for consistency with other sectors. | | | |
| Schedule 6 | Definitions added to clarify meaning of: | | | |
| | Inert waste | | | |
| | Exceeded | | | |
| | Hazardous substances | | | |
| | Medicinal product | | | |
| | Previous year | | | |
| | Relevant waste acceptance criteria | | | |
| | Relevant waste acceptance procedures | | | |

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/RP3133PP

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/RP3133PP/V006 authorising,

Augean South Limited ("the operator"),

whose registered office is

4 Rudgate Court Walton Wetherby West Yorkshire LS23 7BF

company registration number 04636789

to operate an installation and waste operation at

Thornhaugh Landfill Site Leicester Road Thornhaugh Wansford Peterborough PE8 6NH

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

| Name | Date |
|--------------|----------|
| Mike Jenkins | 04/05/16 |

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
 - (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances 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 16 December 2009 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.
- 1.2.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
 - (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.2.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.
- 1.2.3 Where the Environment Agency notifies the operator that additional Financial Provision is required in respect of leachate generation, following the submission and approval of the expenditure plan required by table S1.3 (IC5), this must be made within 3 months of the expenditure plan being approved, failing which deposit of waste in all Phases must cease until such time as it is provided. If the Environment Agency notifies the operator in writing that it cannot approve the revised expenditure plan, the deposit of waste in all Phases must also immediately cease until such time as a revised expenditure plan is approved.

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 A10, 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 A10, the operator shall review and record at least every four years whether changes to those measures referred to in condition 1.5.2 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, A1 to A8, 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 A10, waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; 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 A10, 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 A10, 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 Improvement programme

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

2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

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 as soon as practicable following the construction of the relevant landfill infrastructure.
- 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 Wastes shall only be accepted for disposal if:
 - (a) they are listed in schedule 2, tables S2.1, S2.4, S2.5 and S2.6, and
 - (b) they are non-hazardous waste or asbestos and construction materials containing asbestos or stable, non reactive hazardous wastes, or gypsum waste, 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 S2.3, and
 - (b) they are accepted in accordance with a restoration plan approved in writing by the Environment Agency.
- 2.7.3 Stable non-reactive hazardous waste shall not be deposited in cells used or intended to be used for the disposal of biodegradable non-hazardous waste. Stable non-reactive hazardous waste and non-hazardous waste which is landfilled in the same cell must meet the relevant waste acceptance criteria.
- 2.7.4 Gypsum and other high sulphate bearing waste shall only be disposed of in cells where no biodegradable waste is accepted. Wastes disposed of in a cell with gypsum and other high sulphate bearing wastes must meet the relevant waste acceptance criteria.
- 2.7.5 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.
- 2.7.6 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.
- 2.7.7 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.
- 2.7.8 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.
- 2.7.9 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing Figure ESID 4B Drawing Ref AU/TH/09-14/18073 dated 01/10/14.
- 2.7.10 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.7.11 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.

2.7.12 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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.
- 2.10.3 The operator shall:
 - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a revised landfill gas management plan;
 - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 and S3.3.
- 3.1.3 The limits given in 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.

3.2 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.

3.4 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.

3.5 Pests

3.5.1 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 Monitoring

- 3.6.1 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 S3.10;
 - (b) Point source emissions specified in tables S3.2 and S3.3;
 - (c) Groundwater specified in tables S3.4 and S3.8;
 - (d) Landfill gas specified in tables S3.5, S3.7 and S3.9;
 - (e) Surface water specified in table S3.11;
 - (f) Particulate matter specified in table S3.6; and

- (g) Ambient air specified in table S3.12.
- 3.6.2 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.
- 3.6.3 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, and
 - (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
 - (c) following closure of the landfill or part of the landfill.

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 3.6.3 other than those submitted as part of a CQA validation report;
- 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 presettlement contours and the most recent topographical survey;
- (h) a plan(s) ('the monitoring and extraction point plan MEPP') showing the locations of leachate and landfill gas extraction and all 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8, 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 For the following activities referenced in schedule 1, table S1.1, A1 to A8,
 - (a) in the event 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) in the event of a breach of any permit condition the operator must immediately-
 - (i) inform the Environment Agency, and

- take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) 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, 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 For the following activities referenced in schedule 1, table S1.1, A9 to A10, the Environment Agency shall be notified without delay following the detection of:
 - (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken
- 4.3.6 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.
- 4.3.7 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 A10, 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

| • .• • | | Activity WED Anney Lond II Activity listed in Cohedula Description of enceified Limits of enceified activity | | | | | |
|-----------------------|--|--|--|--|--|--|--|
| 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. | | | |
| A2 | 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 hazardous waste (stable non-reactive or asbestos) 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. | | | |
| Directly Ass | ociated Activities | | | · | | | |
| A3 | N/A | - | Landfill gas extraction and flaring of landfill gas for disposal in an appliance. | Landfill gas arising from the landfill. | | | |
| A4 | N/A | - | Leachate extraction and removal off site. | Leachate arising from the landfill. Leachate recirculation is not permitted. | | | |
| A5 | 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. | | | |
| A6 | N/A | - | Storage of fuel for operation of plant and equipment. | Fuel storage tank. | | | |
| A7 | N/A | - | Storage and handling of drums prior to disposal. | Receipt, handling and storage fulfils requirement of Waste Acceptance Criteria prior to disposal. | | | |

| Table S1.1 a | ctivities | | | |
|--------------------|---|--|---|--|
| 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 |
| A8 | N/A | - | Temporary storage and handling of excavated waste and non-waste material. | Storage and handling of waste and non-waste material arising from the landfill Phases 1, 2, 4 and 7. Non- waste materials only shall be stored outside the permit boundary. Non-waste status shall be confirmed in accordance with Document Ref. AU/TH/MAS/5477/01/EMP entitled "Principles of Materials Excavation and Management at Thornhaugh Landfill including detail on the characterisation of materials" dated August 2015 and pre-operational condition PO3. |
| Waste opera | itions | | | |
| Activity reference | Description of activities for waste operations | | Limits of activities | |
| A9 | R5 Recycling/reclamation of inorganic substances | | Physical treatment including sorting, separation, screening, crushing, or other physical grading of non-hazardous waste prior to re-use on site or export from the site for re-use for the purpose of recovery. | |
| | | | Waste types as specified in table S2.2. | |
| | | | No more than 250,000 tonnes of waste shall be treated per year. | |
| A10 | | pending any of the operations | Waste types as specified in table S2.2. | |
| | numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced) | | No more than 75,000 tonnes of waste shall be stored at any one time. | |
| | | | Wastes shall be stored for no longer than 3 years prior to recovery. | |

| Table S1.2 Operating techniques | | | |
|---------------------------------|--|---------------|--|
| Description | Parts | Date Received | |
| Application | The response to question 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the application form, with the following exclusions; ESID 11 'Local Hydrogeology' ESID 13 'Source Pathway', | 09/11/04 | |

| Description | Parts | Date Received |
|---|--|----------------|
| | and amended drawings dated 31/03/05; DESID 6A 'Installation Infrastructure', DESID 4A 'Site Layout', DESID 4D 'Pre-settlement Contours' DESID 8A 'LFG Monitoring Points' DESID 8C 'LFG Collection System' Insofar as the installation boundary has been superseded by drawing ref. DWG/44879/01 'Installation Infrastructure' dated October 2005. | |
| Addendum to the application | All | May 2005 |
| Response to request for further information dated 5 August 2005 | All, with the following exclusions; Drawing ref.: 44879/01 'Installation Infrastructure' dated 01/09/05 insofar as it has been superseded by drawing ref.: DWG/44879/01 'Installation Infrastructure' dated October 2005 | September 2005 |
| Response to request for information dated 3 October 2005 | All, with the following exclusions; Drawing ref.: DWG/44879/3 'Cross Sections' dated October 2005 insofar that section 4 relates to a vertical barrier which is not acceptable to the Agency | October 2005 |
| Variation application dated November 2005 | All, excluding the proposals for phase 5 vertical separation bunds see IC 13a and 13b | November 2005 |
| Response to Schedule 4 Notice dated 22 December 2005 | All Landfill gas risk assessment Thornhaugh Landfill Site dated Jan 2006 supersedes the Landfill gas risk assessment included in the original PPC application. Drawing reference DWG/44879/1-RE01 supersedes drawing ref.: DWG/44879/1 in the variation application. | January 2006 |
| Response to Schedule 4 Notice dated 22 December 2005 | All Drawing Ref: DWG/44879/1-RE02 supersedes drawing DWG/44879/1-RE01 contained in the schedule 4 response dated January 2006 Revised Stability Risk Assessment dated February 2006 (excluding the proposals for Phase 5 vertical separation bunds see IC 13a and 13b) supersedes Stability Risk Assessment in the variation application | February 2006 |
| Response to letter from Karen Andrews to Atlantic Waste (Thornhaugh) Ltd dated 21 st | All of letter from Dr Edward Slaney to Karen Andrews | 23/02/06 |

| Description | Parts | Date Received |
|--|--|---------------|
| February 2006 | | |
| Monitoring Action Plan | All | 16/09/08 |
| Application | Appendix E – ESID report of the Application in response to section 3a – technical standards, Part C3 of the application form, excluding any reference to leachate recirculation Section 3 'Landfill Gas Management Plan' of Appendix H- Landfill Gas Risk Assessment (LGRA) Appendix I – Nuisance Risk Assessment of the Application including management plans, but excluding any reference to leachate recirculation | 03/10/14 |
| Response to request for further information dated 31 December 2014 | Document Ref. AU_THc16823z.Schedule1 Jan. 2015: Schedule 1 – Waste Treatment Operation Document Ref. AU_THc16823z.Schedule2 Jan. 2015: Schedule 2 – Landfill Gas Compliance Limits Spreadsheet Ref. AU_THc16823z.Schedule2 Jan.2015: ICOP CO2 action levels Document Ref. AU_THc16823z.Schedule3 Jan. 2015: Schedule 3 – Odour | 30/01/15 |
| Response to Schedule 5 Notice dated 19 March 2015 | A response to question 3 on monitoring the stability of existing waste slopes | 05/05/15 |
| Letter dated 21 May 2015 | Confirmation on engineered containment, and monitoring of infiltration through the cap for Phase 7A from MJCA to the Environment Agency, sent by e-mail only | 21/05/15 |
| Response to Schedule 5 Notice dated 16 July 2015 | A response to question 2 on settlement Document Ref. AU/TH/MAS/5477/01/EMP entitled "Principles of Materials Excavation and Management at Thornhaugh Landfill including detail on the characterisation of materials" dated August 2015. | 25/08/15 |
| E-mail dated 26 January 2016 | Confirmation on engineered containment, cap design and monitoring of infiltration through the cap for the cells 1, 2, 4 and 7 from MJCA to the Environment Agency, sent by e-mail only. | 26/01/16 |
| Drawing dated 27/04/16 | Drawing ref. AU/TH/04-15/18613revB 'Monitoring and extraction point plan MEPP' dated 27/04/16 sent by e-mail only | 27/04/16 |

| Table S1.3 Improvement programme requirements | | |
|---|---|---|
| Reference | Requirement | Date |
| IC1 | 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. | 18 months from permit issue |
| IC2 | The operator shall undertake a review and where necessary update all existing monitoring action plans to take account of any changes to monitoring requirements in the permit. The operator shall submit the updated plans to the Environment Agency for approval. | 6 months from permit issue |
| IC3 | The operator shall sample the exhaust gases from the microturbine at monthly intervals for 12 months and analyse for Oxides of Nitrogen, Carbon Monoxide, Total Volatile Organic Compounds & Non-methane Volatile Organic Compounds. The sampling and analysis of the gas is to be carried out in accordance with the Environment Agency Guidance LFTGN05 and LFTGN08. The results of the analysis of the microturbine emissions are to be used to re-run the air dispersion model for the site. The operator is to determine emission limit values for the microturbine emissions based on the air dispersion model results, sufficient to not breach environmental assessment limits at nearby residential receptors. | 14 months after installation of microturbine |
| IC4 | The operator shall implement the procedure proposed in accordance with Pre-operational measure 5 in Table S1.4 and upon obtaining the Environment Agency's written approval to them to monitor or verify the cap infiltration rates in Phase 7A. | Once capping completed in Phase 7A |
| IC5 | The operator shall review the expenditure plan then in force for the site in respect of leachate generation based on the cap infiltration monitoring or verification carried out in Phase 7A. The revised expenditure plan shall be submitted to the Environment Agency for approval. | Within 30 months of the capping in Phase 7A being completed |
| IC6 | The operator shall install groundwater monitoring borehole TH26 at the location identified on plan MEPP ref. AU/TH/04-15/18613revB dated 27/04/16. | 6 months from permit issue |
| IC7 | The operator shall submit a written report to the Environment Agency for approval. The report shall include a review of at least 12 months of groundwater quality data from monitoring borehole TH26, proposals for groundwater control and compliance levels for selected determinands, and a contingency action plan. The control and compliance levels shall be adopted upon receipt of written agreement from and the date stipulated by the Environment Agency. | 21 months from permit issue |

| Table S1.4 Pre- | Table S1.4 Pre-operational measures for future development | | |
|-----------------|--|---|--|
| Reference | Operation | Pre-operational Measures | |
| PO1 | Microturbine | Prior to operation of the microturbine the operator shall develop management and maintenance procedures for the microturbine and submit these procedures to the Environment Agency and obtain the Environment Agency's written approval to them. Once approved these procedures are to be included within the integrated management system documents for the site. | |
| PO2 | Stable non-reactive hazardous waste, asbestos waste and construction material containing asbestos, and gypsum waste deposit in Phases 1, 2, 4 and 7 | Prior to construction of mono cells for stable non-reactive hazardous waste, asbestos waste and construction material containing asbestos, and gypsum waste, the operator shall review their risk assessments and submit a report detailing the findings of the review and any necessary changes in respect of monitoring requirements and management plans to the Environment Agency and obtain the Environment Agency's written approval to it. | |
| PO3 | Excavation and storage of waste from Phases 1, 2, 4 and 7 | Prior to the excavation of waste disposed of in Phases 1, 2, 4 and 7 the operator shall submit to the Environment Agency detailed waste management procedures in respect of the relevant phase which is to be progressed by the operator and obtain the Environment Agency's written approval to them. These shall include, but not be limited to, details of reuse, relocation and disposal of excavated waste and non waste materials, assessment and categorisation of the wastes, trial pit logs and analysis, loading procedures and supervision, and any necessary additional environmental monitoring and emission control. The procedures shall include a plan showing the storage locations and types of wastes and non waste materials in each stockpile. | |
| PO4 | Waste deposit in Phase 1 East, Phase 1 West, Phase 2 East and Phase 2 West | Prior to waste deposit in any new cell in Phase 1 East, Phase 1 West, Phase 2 East and Phase 2 West the operator shall remove all existing waste from the area proposed for each new cell sufficient to facilitate construction of the new cell in accordance with condition 2.6 on landfill engineering. | |
| PO5 | Capping in Phase 7A | Prior to commencement of capping in Phase 7A the operator shall submit to the Environment Agency detailed written proposals to monitor or verify through other measures which may include experimentation or calculation the cap infiltration in Phase 7A and obtain the Environment Agency's written approval to them. | |

| Table S1.5 Annual waste input limits for disposal or restoration | |
|--|---------|
| Category Limit Tonnes/Year | |
| Non-hazardous waste | 175,000 |

| Table S1.5 Annual waste input limits for disposal or restoration | |
|---|--|
| Category | Limit Tonnes/Year |
| Stable non-reactive hazardous waste, and asbestos waste and construction material containing asbestos | 150,000 |
| Gypsum waste | 0 |
| Inert waste | 25,000 |
| Waste for restoration | As agreed in accordance with IC1 in table S1.3 |
| Total | 350 000 |

Schedule 2 – List of permitted wastes

| Table S2.1 Pe | rmitted waste types for disposal at a landfill for non-hazardous waste | |
|---------------|---|--|
| Waste code | ode 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 08 | dusty and powdery wastes other than those mentioned in 01 03 07 | |
| 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 10 | dusty and powdery wastes other than those mentioned in 01 04 07 | |
| 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 | |
| 01 05 | drilling muds and other drilling wastes | |
| 01 05 04 | freshwater drilling muds and wastes | |
| 01 05 07 | barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 | |
| 01 05 08 | chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06 | |
| 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 01 | sludges from washing and cleaning | |
| 02 01 02 | animal-tissue waste | |
| 02 01 03 | plant-tissue waste | |
| 02 01 04 | waste plastics (except packaging) | |
| 02 01 06 | animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site | |
| 02 01 07 | wastes from forestry | |
| 02 01 09 | agrochemical waste other than those mentioned in 02 01 08 | |
| 02 01 10 | waste metal | |

| Table 92 1 Par | mitted waste types for disposal at a landfill for non-hazardous waste | |
|----------------|--|--|
| Waste code | Description | |
| 02 02 | wastes from the preparation and processing of meat, fish and other foods of | |
| 02 02 | animal origin | |
| 02 02 01 | sludges from washing and cleaning | |
| 02 02 02 | animal-tissue waste | |
| 02 02 03 | materials unsuitable for consumption or processing | |
| 02 02 04 | sludges from on-site effluent treatment | |
| 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 01 | sludges from washing, cleaning, peeling, centrifuging and separation | |
| 02 03 02 | wastes from preserving agents | |
| 02 03 03 | wastes from solvent extraction | |
| 02 03 04 | materials unsuitable for consumption or processing | |
| 02 03 05 | sludges from on-site effluent treatment | |
| 02 04 | wastes from sugar processing | |
| 02 04 01 | soil from cleaning and washing beet | |
| 02 04 02 | off-specification calcium carbonate | |
| 02 04 03 | sludges from on-site effluent treatment | |
| 02 05 | wastes from the dairy products industry | |
| 02 05 01 | materials unsuitable for consumption or processing | |
| 02 05 02 | sludges from on-site effluent treatment | |
| 02 06 | wastes from the bakingand confectionery industry | |
| 02 06 01 | materials unsuitable for consumption or processing | |
| 02 06 02 | wastes from preserving agents | |
| 02 06 03 | sludges from on-site effluent treatment | |
| 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 03 | wastes from chemical treatment | |
| 02 07 04 | materials unsuitable for consumption or processing | |
| 02 07 05 | sludges from on-site effluent treatment | |
| 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 | |
| | | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|---|--|
| Waste code | Description | |
| 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 02 | green liquor sludge (from recovery of cooking liquor) | |
| 03 03 05 | de-inking sludges from paper recycling | |
| 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 09 | lime mud waste | |
| 03 03 10 | fibre rejects, fibre-, filler- and coating-sludges from mechanical separation | |
| 03 03 11 | sludges from on-site effluent treatment other than those mentioned in 03 03 10 | |
| 04 | Wastes from the leather, fur and textile industries | |
| 04 01 | wastes from the leather and fur industry | |
| 04 01 01 | fleshings and lime split wastes | |
| 04 01 02 | liming waste | |
| 04 01 04 | tanning liquor containing chromium | |
| 04 01 05 | tanning liquor free of chromium | |
| 04 01 06 | sludges, in particular from on-site effluent treatment containing chromium | |
| 04 01 07 | sludges, in particular from on-site effluent treatment free of chromium | |
| 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 09 | wastes from composite materials (impregnated textile, elastomer, plastomer) | |
| 04 02 10 | organic matter from natural products (for example grease, wax) | |
| 04 02 15 | wastes from finishing other than those mentioned in 04 02 14 | |
| 04 02 17 | dyestuffs and pigments other than those mentioned in 04 02 16 | |
| 04 02 20 | sludges from on-site effluent treatment other than those mentioned in 04 02 19 | |
| 04 02 21 | wastes from unprocessed textile fibres | |
| 04 02 22 | wastes from processed textile fibres | |
| 05 | Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal | |
| 05 01 | wastes from petroleum refining | |
| 05 01 13 | boiler feedwater sludges | |
| 05 01 14 | wastes from cooling columns | |
| 05 01 17 | bitumen | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|--|--|
| Waste code | Description | |
| 05 06 | wastes from the pyrolytic treatment of coal | |
| 05 06 04 | waste from cooling columns | |
| 06 | Wastes from inorganic chemical processes | |
| 06 03 | wastes from the MFSU of salts and their solutions and metallic oxides | |
| 06 03 14 | solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 | |
| 06 03 16 | metallic oxides other than those mentioned in 06 03 15 | |
| 06 05 | sludges from on-site effluent treatment | |
| 06 05 03 | sludges from on-site effluent treatment other than those mentioned in 06 05 02 | |
| 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 opacificiers | |
| 06 11 01 | calcium-based reaction wastes from titanium dioxide production | |
| 06 13 | wastes from inorganic chemical processes not otherwise specified | |
| 06 13 03 | carbon black | |
| 07 | Wastes from organic chemical processes | |
| 07 01 | wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals | |
| 07 01 12 | sludges from on-site effluent treatment other than those mentioned in 07 01 11 | |
| 07 02 | wastes from the MFSU of plastics, synthetic rubber and man-made fibres | |
| 07 02 12 | sludges from on-site effluent treatment other than those mentioned in 07 02 11 | |
| 07 02 13 | waste plastic | |
| 07 02 15 | wastes from additives other than those mentioned in 07 02 14 | |
| 07 02 17 | waste containing silicones other than those mentionned in 07 02 16 | |
| 07 03 | wastes from the MFSU of organic dyes and pigments (except 06 11) | |
| 07 03 12 | sludges from on-site effluent treatment other than those mentioned in 07 03 11 | |
| 07 04 | wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides | |
| 07 04 12 | sludges from on-site effluent treatment other than those mentioned in 07 04 11 | |
| 07 05 | wastes from the MFSU of pharmaceuticals | |
| 07 05 12 | sludges from on-site effluent treatment other than those mentioned in 07 05 11 | |
| 07 05 14 | solid wastes other than those mentioned in 07 05 13 | |

| Waste code | Description | |
|------------|--|--|
| 07 06 | wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics | |
| 07 06 12 | sludges from on-site effluent treatment other than those mentioned in 07 06 11 | |
| 07 07 | wastes from the MFSU of fine chemicals and chemical products not otherwise specified | |
| 07 07 12 | sludges from on-site effluent treatment other than those mentioned in 07 07 11 | |
| 08 | Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks | |
| 08 01 | wastes from MFSU and removal of paint and varnish | |
| 08 01 12 | waste paint and varnish other than those mentioned in 08 01 11 | |
| 08 01 14 | sludges from paint or varnish other than those mentioned in 08 01 13 | |
| 08 01 16 | aqueous sludges containing paint or varnish other than those mentioned in 08 01 15 | |
| 08 01 18 | wastes from paint or varnish removal other than those mentioned in 08 01 17 | |
| 08 02 | wastes from MFSU of other coatings (including ceramic materials) | |
| 08 02 01 | waste coating powders | |
| 08 02 02 | aqueous sludges containing ceramic materials | |
| 08 03 | wastes from MFSU of printing inks | |
| 08 03 07 | aqueous sludges containing ink | |
| 08 03 13 | waste ink other than those mentioned in 08 03 12 | |
| 08 03 15 | ink sludges other than those mentioned in 08 03 14 | |
| 08 03 18 | waste printing toner other than those mentioned in 08 03 17 | |
| 08 04 | wastes from MFSU of adhesives and sealants (including water proofing products) | |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 | |
| 08 04 12 | adhesive and sealant sludges other than those mentioned in 08 04 11 | |
| 08 04 14 | aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13 | |
| 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) | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|---|--|
| Waste code | Description | |
| 10 01 01 | bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) | |
| 10 01 02 | coal fly ash | |
| 10 01 03 | fly ash from peat and untreated wood | |
| 10 01 15 | bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14 | |
| 10 01 17 | fly ash from co-incineration other than those mentioned in 10 01 16 | |
| 10 01 19 | wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18 | |
| 10 01 21 | sludges from on-site effluent treatment other than those mentioned in 10 01 20 | |
| 10 01 23 | aqueous sludges from boiler cleansing other than those mentioned in 10 01 22 | |
| 10 01 24 | sands from fluidised beds | |
| 10 01 25 | wastes from fuel storage and preparation of coal-fired power plants | |
| 10 01 26 | wastes from cooling-water treatment | |
| 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 12 | wastes from cooling-water treatment other than those mentioned in 10 02 11 | |
| 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 20 | flue-gas dust other than those mentioned in 10 03 19 | |
| 10 03 22 | other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21 | |
| 10 03 24 | solid wastes from gas treatment other than those mentioned in 10 03 23 | |
| 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 | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|--|--|
| Waste code | Description | |
| 10 05 01 | slags from primary and secondary production | |
| 10 05 04 | other particulates and dust | |
| 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 04 | other particulates and dust | |
| 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 04 | other particulates and dust | |
| 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 04 | particulates and dust | |
| 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 16 | flue-gas dust other than those mentioned in 10 08 15 | |
| 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 | |
| 10 09 08 | casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07 | |
| 10 09 10 | flue-gas dust other than those mentioned in 10 09 09 | |
| 10 09 12 | other particulates other than those mentioned in 10 09 11 | |
| 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 | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|---|--|
| Waste code | Description | |
| 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 10 | flue-gas dust other than those mentioned in 10 10 09 | |
| 10 10 12 | other particulates other than those mentioned in 10 10 11 | |
| 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 05 | particulates and dust | |
| 10 11 10 | waste preparation mixture before thermal processing, other than those mentioned in 10 11 09 | |
| 10 11 12 | waste glass other than those mentioned in 10 11 11 | |
| 10 11 14 | glass-polishing and -grinding sludge other than those mentioned in 10 11 13 | |
| 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 11 20 | solid wastes from on-site effluent treatment other than those mentioned in 10 11 19 | |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products | |
| 10 12 01 | waste preparation mixture before thermal processing | |
| 10 12 03 | particulates and dust | |
| 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 12 13 | sludge from on-site effluent treatment | |
| 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 06 | particulates and dust (except 10 13 12 and 10 13 13) | |
| | aludgee and filter askee from the treatment | |
| 10 13 07 | sludges and filter cakes from gas treatment | |
| 10 13 07 10 13 10 | wastes from asbestos-cement manufacture other than those mentioned in 10 13 09 | |
| | | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|---|---|--|
| Waste code | Description | |
| 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, phosphating, 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 | zincash | |
| 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 02 | ferrous metal dust and particles | |
| 12 01 03 | non-ferrous metal filings and turnings | |
| 12 01 04 | non-ferrous metal dust and particles | |
| 12 01 05 | plastics shavings and turnings | |
| 12 01 13 | welding wastes | |
| 12 01 15 | machining sludges other than those mentioned in 12 01 14 | |
| 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 | |
| 15 01 04 | metallic packaging | |
| 15 01 05 | composite packaging | |

| Table S2.1 Per | Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | |
|----------------|--|--|--|
| Waste code | Description | | |
| 15 01 06 | mixed packaging | | |
| 15 01 07 | glass packaging | | |
| 15 01 09 | textile packaging | | |
| 15 02 | absorbents, filter materials, wipingcloths 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 01 12 | brake pads other than those mentioned in 16 01 11 | | |
| 16 01 17 | ferrous metal | | |
| 16 01 18 | non-ferrous metal | | |
| 16 01 19 | plastic | | |
| 16 01 20 | glass | | |
| 16 01 16 | tanks for liquefied gas | | |
| 16 01 22 | components not otherwise specified | | |
| 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 05 | gases in pressure containers and discarded chemicals | | |
| 16 05 09 | discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08 | | |
| 16 06 | batteries and accumulators | | |
| 16 06 04 | alkaline batteries (except 16 06 03) | | |
| 16 06 05 | other batteries and accumulators | | |
| 16 08 | spent catalysts | | |
| 16 08 01 | spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07) | | |
| 16 08 03 | spent catalysts containing transition metals or transition metal compounds not otherwise specified | | |
| 16 11 | waste linings and refractories | | |

| Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste | | | | |
|---|--|--|--|--|
| Waste code | Description | | | |
| 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 | | | |
| 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 | | | |

| Waste code | Description | | | | |
|------------|---|--|--|--|--|
| | 02 and 17 09 03 | | | | |
| 18 | Wastes from human or animal health care and/or related research (except kitche and restaurant wastes not arising from immediate health care) | | | | |
| 18 02 | wastes from research, diagnosis, treatment or prevention of disease involving animals | | | | |
| 18 02 03 | wastes whose collection and disposal is not subject to special requirements in order to prevent infection | | | | |
| 18 02 06 | chemicals other than those mentioned in 18 02 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 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 14 | fly ash other than those mentioned in 19 01 13 | | | | |
| 19 01 16 | boiler dust other than those mentioned in 19 01 15 | | | | |
| 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 06 | sludges from physico/chemical treatment other than those mentioned in 19 02 05 | | | | |
| 19 02 10 | combustible wastes other than those mentioned in 19 02 08 and 19 02 09 | | | | |
| 19 03 | stabilised/solidified wastes ¹ | | | | |
| 19 03 05 | stabilised wastes other than those mentioned in 19 03 04 | | | | |
| 19 03 07 | solidified wastes other than those mentioned in 19 03 06 | | | | |
| 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 06 | wastes from anaerobic treatment of waste | | | | |

¹ Stabilisation processes change the dangerousness of the constituents in the waste and thus transform hazardous waste into non-hazardous waste. Solidification processes only change the physical state of the waste (e.g. liquid into solid) by using additives without changing the chemical properties of the waste.

| Table S2.1 Per | mitted waste types for disposal at a landfill for non-hazardous waste | | | |
|----------------------------------|--|--|--|--|
| Waste code | Description | | | |
| 19 06 04 | digestate from anaerobic treatment of municipal waste | | | |
| 19 06 06 | digestate from anaerobic treatment of animal and vegetable waste | | | |
| 19 08 | wastes from waste water treatment plants not otherwise specified | | | |
| 19 08 01 | screenings | | | |
| 19 08 02 | waste from desanding | | | |
| 19 08 05 | sludges from treatment of urban waste water | | | |
| 19 08 12 | sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11 | | | |
| 19 08 14 | sludges from other treatment of industrial waste water other than those mentioned in 19 08 13 | | | |
| 19 09 | wastes from the preparation of water intended for human consumption or water for industrial use | | | |
| 19 09 01 | solid waste from primary filtration and screenings | | | |
| 19 09 02 | sludges from water clarification | | | |
| 19 09 03 | sludges from decarbonation | | | |
| 19 09 04 | spent activated carbon | | | |
| 19 09 05 | saturated or spent ion exchange resins | | | |
| 19 09 06 | solutions and sludges from regeneration of ion exchangers | | | |
| 19 10 | wastes from shredding of metal-containing wastes | | | |
| 19 10 01 | iron and steel waste | | | |
| 19 10 02 | non-ferrous waste | | | |
| 19 10 04 | fluff-light fraction and dust other than those mentioned in 19 10 03 | | | |
| 19 10 06 | other fractions other than those mentioned in 19 10 05 | | | |
| 19 11 | wastes from oil regeneration | | | |
| 19 11 06 | sludges from on-site effluent treatment other than those mentioned in 19 11 05 | | | |
| 19 12 | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified | | | |
| 19 12 01 | paper and cardboard | | | |
| 19 12 02 | ferrous metal | | | |
| 19 12 03 | non-ferrous metal | | | |
| | plastic and rubber | | | |
| 19 12 04 | plastic and rubber | | | |
| 19 12 04 19 12 05 | glass | | | |
| | | | | |
| 19 12 05 | glass | | | |
| 19 12 05 19 12 07 | glass wood other than that mentioned in 19 12 06 | | | |
| 19 12 05 19 12 07 19 12 08 | glass wood other than that mentioned in 19 12 06 textiles | | | |

| Table S2.1 Per | mitted waste types for disposal at a landfill for non-hazardous waste | | | |
|----------------|---|--|--|--|
| Waste code | Description | | | |
| | than those mentioned in 19 12 11 | | | |
| 19 13 | wastes from soil and groundwater remediation | | | |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 | | | |
| 19 13 04 | sludges from soil remediation other than those mentioned in 19 13 03 | | | |
| 19 13 06 | sludges from groundwater remediation other than those mentioned in 19 13 05 | | | |
| 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 25 | edible oil and fat | | | |
| 20 01 28 | paint, inks, adhesives and resins other than those mentioned in 20 01 27 | | | |
| 20 01 30 | detergents other than those mentioned in 20 01 29 | | | |
| 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 02 03 | other non-biodegradable wastes | | | |
| 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 04 | septic tank sludge | | | |
| 20 03 06 | waste from sewage cleaning | | | |
| 20 03 07 | bulky waste | | | |

| Table S2.2 Per | rmitted waste types accepted for treatment | | | |
|----------------|--|--|--|--|
| Waste code | Description (not consisting of solely or mainly dusts or powders) | | | |
| 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 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 13 | wastes from stone cutting and sawing other than those mentioned in 01 04 07 | | | |
| 10 | Wastes from thermal processes | | | |
| 10 11 | wastes from manufacture of glass and glass products | | | |
| 10 11 03 | waste-glass based fibrous materials | | | |
| 10 11 12 | waste glass other than those mentioned in 10 11 11 | | | |
| 10 12 | wastes from manufacture of ceramic goods, bricks, tiles and construction products | | | |
| 10 12 08 | waste ceramics, bricks, tiles and construction products (after thermal processing) | | | |
| 10 13 | wastes from manufacture of cement, lime and plaster and articles and products made from them | | | |
| 10 13 14 | waste concrete | | | |
| 15 | Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified | | | |
| 15 01 | packaging (including separately collected municipal packaging waste) | | | |
| 15 01 07 | glass packaging | | | |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) | | | |
| 17 01 | concrete, bricks, tiles and ceramics | | | |
| 17 01 01 | concrete | | | |
| 17 01 02 | bricks | | | |
| 17 01 03 | tiles and ceramics | | | |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | | | |
| 17 02 | wood, glass and plastic | | | |
| 17 02 02 | glass | | | |
| 17 03 | bituminous mixtures, coal tar and tarred products | | | |
| 17 03 02 | bituminous mixtures other than those mentioned in 17 01 06 | | | |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil | | | |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 | | | |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 | | | |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 | | | |
| 17 09 | other construction and demolition wastes | | | |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 | | | |

| Table S2.2 Permitted waste types accepted for treatment | | | | |
|---|--|--|--|--|
| Waste code | Description (not consisting of solely or mainly dusts or powders) | | | |
| | 02 and 17 09 03 (containing only waste materials that would be described by waste codes 17 01 01, 17 03 02 and 17 05 04, if the waste was not mixed) | | | |
| 19 | Wastes from waste management facilities, off-site waste water treatment plants and preparation of water intended for human consumption/industrial use | | | |
| 19 08 | wastes from waste water treatment plants not otherwise specified | | | |
| 19 08 02 | washed sewage grit (waste from desanding) free from sewage contamination only | | | |
| 19 08 99 | stone filter media if free from sewage contamination only | | | |
| 19 12 | Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified | | | |
| 19 12 05 | glass | | | |
| 19 12 09 | minerals (for example sand, stones) | | | |
| 19 12 12 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (from Phases 1, 2, 4 and 7 containing only waste materials that would be described by waste codes 17 01 01, 17 03 02 and 17 05 04, if the waste was not mixed) | | | |
| 19 13 | wastes from soil and groundwater remediation | | | |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 | | | |
| 19 13 04 | sludges from soil remediation other than those mentioned in 19 13 03 | | | |
| 20 | Municipal wastes (household wastes and similar commercial, industrial and institutional wastes) including separately collected fractions | | | |
| 20 01 | separately collected fractions (except 15 01) | | | |
| 20 01 02 | glass | | | |
| 20 02 | garden and park wastes (including cemetery waste) | | | |
| 20 02 02 | soil and stones | | | |

Table S2.3 Permitted waste types for restoration

As agreed in accordance with IC1 in Table S1.3

| Table S2.4 Permitted waste types for disposal in the stable non-reactive hazardous waste cell | | | |
|---|--|--|--|
| Waste code | Description | | |
| | Construction and demolition wastes (including excavated soil from contaminated sites) | | |
| 17 01 | concrete, bricks, tiles and ceramics | | |
| 17 01 06* | mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances | | |
| 17 02 | wood, glass and plastic | | |
| 17 02 04* | glass, plastic and wood containing or contaminated with dangerous substances | | |
| 17 03 | bitunumous mixtures, coal tar and tarred products | | |
| 17 03 03* | coal tar and tarred products | | |
| 17 04 | metals (including their alloys) | | |
| 17 04 09* | metal waste contaminated with dangerous substances | | |

| Table S2.4 Permitted waste types for disposal in the stable non-reactive hazardous waste cell | | | | |
|--|---|--|--|--|
| Waste code | Description | | | |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil | | | |
| 17 05 03* | soil and stones containing dangerous substances | | | |
| 17 05 05* | dredging spoil containing dangerous substances | | | |
| 17 05 07* | track ballast containing dangerous substances | | | |
| 17 09 | other construction and demolition wastes | | | |
| 17 09 01* | construction and demolition wastes containing mercury | | | |
| 17 09 02* | construction and demolition wastes containing PCB (for example PCB-containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors) | | | |
| 17 09 03* | other construction and demolition wastes (including mixed wastes) containing dangerous substances | | | |
| 19 Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use | | | | |
| 19 13 | wastes from soil and groundwater remediation | | | |
| 19 13 01* | solid wastes from soil remediation containing dangerous substances | | | |
| 19 13 03* | sludges from soil remediation containing dangerous substances | | | |

| Table S2.5 Permitted waste types for disposal in the asbestos cell | | | | |
|--|--|--|--|--|
| Waste code | Description | | | |
| 06 | Wastes from inorganic chemical processes | | | |
| 06 07 | wastes from the MFSU of halogens and halogen chemical processes | | | |
| 06 07 01* | wastes containing asbestos from electrolysis | | | |
| 06 13 | wastes from inorganic chemical processes not otherwise specified | | | |
| 06 13 04* | wastes from asbestos processing | | | |
| 10 | Wastes from thermal processes | | | |
| 10 13 | wastes from manufacture of cement, lime and plaster and articles and products made from them | | | |
| 10 13 09* | wastes from asbestos-cement manufacture containing asbestos | | | |
| | Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified | | | |
| 15 01 | packaging (including separately collected municipal packaging waste) | | | |
| 15 01 11* | metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers | | | |
| 16 | Wastes not otherwise specified in the list | | | |
| | 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 11* | brake pads other than those mentioned in 16 01 11 | | | |
| 16 02 | wastes from electrical and electronic equipment | | | |
| 16 02 12* | discarded equipment containing free asbestos | | | |

| Table S2.5 Permitted waste types for disposal in the asbestos cell | | | |
|--|---|--|--|
| 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* | sulation materials containing asbestos | | |
| 17 06 05* | construction materials containing asbestos | | |

Table S2.6 Permitted waste types for disposal in the gypsum cell

| Waste code | Description | | | |
|------------|---|--|--|--|
| 05 | Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal | | | |
| 05 01 | wastes from petroleum refining | | | |
| 05 01 10 | sludges from on-site effluent treatment other than those mentioned in 05 01 09 | | | |
| 05 01 16 | sulphur-containing wastes from petroleum desulphurisation | | | |
| 05 07 | wastes from natural gas purification and transportation | | | |
| 05 07 02 | wastes containing sulphur | | | |
| 06 | Wastes from inorganic chemical processes | | | |
| 06 06 | wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes | | | |
| 06 06 03 | wastes containing sulphides other than those mentioned in 06 06 02 | | | |
| 10 | Wastes from thermal processes | | | |
| 10 01 | wastes from power stations and other combustion plants (except 19) | | | |
| 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 | | | |
| 17 | Construction and demolition wastes (including excavated soil from contaminated sites) | | | |
| 17 08 | gypsum-based construction material | | | |
| 17 08 02 | gypsum-based construction materials other than those mentioned in 17 08 01 | | | |
| 18 | Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care) | | | |
| 18 01 | wastes from natal care, diagnosis, treatment or prevention of disease in humans | | | |
| 18 01 04 | wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example plaster casts) | | | |

Schedule 3 – Emissions and monitoring

| Monitoring point reference/Description | Limit | Monitoring frequency | Monitoring standard and method |
|---|-------------------------------|-------------------------|---|
| Operational Cells or Phases (Any cells or ph | ases that do not have a final | engineered cap ag | reed in accordance with the landfill engineering condition, 2.6) |
| Leachate compliance and monitoring points THLW_5A112, THLW_5A113, THLW_5A12, THLW_5A13, THLW_5A22, THLW_5A23, THLW_5B12, THLW_5B13, THLW_5B23, THLW_1E2, THLW_1E3, THLW_1W2, THLW_1W3, THLW_2E2, THLW_2E3, THLW_2W2, THLW_2W3, THLW_2BN2, THLW_2BN3, THLW_2CN2, THLW_2CN3, THLW_2BS2, THLW_2CN2, THLW_2CS2, THLW_2CS3, THLW_7A2, THLW_7A3, THLW_7B2, THLW_7B3, THLW_7C2, THLW_7C3, THLW_5B21, THLW_5A111, THLW_5A21, THLW_5B21, THLW_5B22, THLW_1E1, THLW_5B21, THLW_5B22, THLW_1E1, THLW_2CN1, THLW_2BN1, THLW_2W1, THLW_2CS1, THLW_7A1, THLW_7B1, THLW_7C1 on Plan MEPP ref. AU/TH/04-15/18613revB dated 27/04/16 | 1.5 m above cell base | Monthly | As specified in Environment Agency Guidance TGN02 (February 2003) 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. |

| Monitoring point reference/Description | Limit | Monitoring frequency | Monitoring standard and method |
|--|---------------------------------|-------------------------|--|
| Non Operational Cells or Phases (Any cells | s or phases that have a final e | ngineered cap agre | ed in accordance with the landfill engineering condition, 2.6) |
| Leachate compliance and monitoring points THLW_3A1, THLW_3A2, THLW_3A3, THWL_6A1, THWL_6A2, THLW_6A3, THLW_6B1, THLW_6B2, THLW_6B3, THLW_6B21, THLW_6B22, THLW_6B23 on Plan MEPP ref. AU/TH/04-15/18613revB dated 27/04/16 | 1.5 m above cell base | Quarterly | As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwis agreed with the Agency as part of a leachate monitoring plan. |

| Emission point Ref. & Location | Parameter | Source | Limit (including unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|--|---|-----------------------|------------------------------|---------------------|---|--|
| 5 | Oxides of Nitrogen | Landfill Gas Flare | 150 mg/m ³ | | Annually | As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| ref.AU/TH/04- 15/18613 dated 05/05/15 | со | | 50 mg/m ³ | | Monitoring is unnecessary where the flare is active for <10% of the year. | |
| All these are | | - | | | | |
| referenced to Normal Temperature and Pressure (NTP), at 3% oxygen and dry gas. | al Total VOCs perature Pressure), at 3% | | | | | |
| Landfill gas | Oxides of Nitrogen | Microturbine | In accordance | Hourly mean | Annually | In accordance with the IC3. |
| Microturbine Referenced to | with the | with the IC3. | with the | | | |
| (273K) and Pressure (101.3 kPa) at | СО | | | | | |
| | Total VOCs | 1 | | | | |

| Emission point Ref. & Location | Parameter | Source | Limit (incl unit) | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
|---|------------------------|------------------|--------------------------------|---------------------|-------------------------|--|
| SWSLTAPNitrogeSWOFALLSusperSWTBECKSusperSWCHTRMSolidsSWNEWT1pHSWNEWT2SWP4on Plan MEPPChloridref. AU/TH/04 | Ammoniacal Nitrogen | Surface water | <1mg/l | Spot Sample | Monthly | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for</u> <u>your environmental permit</u> (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency. |
| | Suspended Solids | Surface water | 40 mg/l | Spot Sample | Monthly | |
| | рН | Surface water | >6 and <9 pH units | Spot sample | Monthly | |
| | Chloride | Surface water | 250mg/l | Spot sample | Monthly | |
| | Oil/greases | Surface water | No visible oil or grease | Spot sample | Monthly | |

| Monitoring point reference* | Parameter | Limit (including unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|-----------------------------------|------------------------|------------------------------|---------------------|-------------------------|--|
| TH13, TH14, TH15, Nit TH19A Cr | Ammoniacal Nitrogen | 0.39 mg/l | Spot Sample | Quarterly | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your</u> <u>environmental permit</u> (<u>www.gov.uk</u>), or such other subsequent guidance as may be agreed in writing with the Environment |
| | Chloride | 250 mg/l | | | |
| | Cadmium | 0.00032 mg/l | | | |
| | MTBE | 0.001 mg/l | | | Agency. |
| | Naphthalene | 0.00045 mg/l | | | |
| | Trichloroethene | 0.00002 mg/l | 1 | | |
| | Manganese | 0.22 mg/l | 1 | | |
| | Phenol | 0.046 mg/l | | | |

| Monitoring point reference* | Parameter | Limit (including unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--------------------------------|-----------------------|------------------------------|---------------------|-------------------------|---|
| Interim groundwater m | nonitoring requiremer | ts until completion | of excavation o | f the waste mater | rials and installation of engineered liner in Phases 1 and 2. |
| TH10 | Ammoniacal | 10 mg/l | Spot | Quarterly | As specified in Environment Agency Guidance TGN02 |
| TH11 | Nitrogen | No limit | Sample | | 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your |
| TH17A | | 5.07 mg/l | | | environmental permit (www.gov.uk), or such other subsequent |
| TH18A | | 42 mg/l | | | guidance as may be agreed in writing with the Environment Agency. |
| TH10 | Chloride | 235 mg/l | | | |
| TH11 | | 452 mg/l | | | |
| TH17A | | 279 mg/l | | | |
| TH18A | | 208 mg/l | | | |
| TH10 | Electrical | 2220 µS/cm | | | |
| TH11 | conductivity | 2880 µS/cm | | | |
| TH17A | | 1628 µS/cm | | | |
| TH18A | | 2670 µS/cm | | | |
| TH10 | Mecoprop | 0.0027 mg/l | | | |
| TH11 | | 0.0421 mg/l | | | |
| TH17A | | 0.0540 mg/l | | | |
| TH18A | | 0.0072 mg/l | | | |
| TH10 | Naphthalene | 0.00014 mg/l |] | | |
| TH11 | | 0.0268 mg/l |] | | |
| TH17A | | No limit | | | |
| TH18A | | No limit |] | | |
| TH10 | Sodium | 180 mg/l |] | | |
| TH11 | | 555 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 | |
| TH17A | | 52 mg/l | | | | |
| TH18A | | 276 mg/l | | | | |
| * As shown on Plan MEPP ref. AU/TH/04-15/18613revB dated 27/04/16 | | | | | | |

| Monitoring point Ref. /description | Parameter | Limit (including units) | Monitoring frequency | Monitoring standard or method |
|---|-------------------|--|-------------------------|--|
| TH1 to TH15, TH17A to TH19A, TH25 and | i and | As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | | |
| TH26* on Plan MEPP ref. AU/TH/04- 15/18613revB dated 27/04/16 | Carbon Dioxide | no limit | | Record whether the ground is: waterlogged |
| accordance with improvement condition IC6. Atmospheric pressure no | Oxygen | no limit | | frozen snow covered |
| | no limit | | | |
| | | no limit | | |

| 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 | 2 hours | Twice per year or every 5000 tonnes asbestos deposited, whichever is greater. | While asbestos is being deposited. Pumped sampling 1m above ground level Flow rate = 4 litres/ minute |
| 50m upwind of asbestos disposal cell | Asbestos Fibres | electron microscopy to confirm the concentration of asbestos fibres present | 2 hours | During all downwind monitoring | Minimum sample volume = 480 litres Filter pore size = 1.2µm Asbestos fibre limit of detection = 0.01 fibres/ml |
| Site boundary downwind of asbestos disposal cell ⁽¹⁾ | Asbestos Fibres | | 2 hours | Minimum twice per year | |
| MEPP ⁽¹⁾ | Suspended particulates PM ₁₀ | Not to exceed 50 µg/m ³ more than 35 times per year when measured as a 24 hour mean concentration | | In accordance with the operator's particulate monitoring action plan dated September 2008. | In accordance with Technical guidance document M17 unless otherwise agreed. |
| MEPP ⁽¹⁾ | Deposited dust | 200 mg/m ² | | In accordance with the operator's particulate monitoring action plan dated September 2008. | In accordance with Technical guidance document M17 unless otherwise agreed. |

| Table S3.7 Landfill ga | Table S3.7 Landfill gas emissions from capped surfaces for cells that have accepted non hazardous biodegradable waste – monitoring requirements | | | | | | |
|---------------------------------------|---|-----------------|--|--|--|--|--|
| Monitoring point Ref. /description | | | Monitoring Standard or method | | | | |
| Permanently capped zone | Methane concentration | Every 12 months | As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with the Environment Agency. | | | | |
| Temporarily capped zone | Methane concentration | Every 12 months | | | | | |

| Table S3.8 Groundwate | r – other monitoring requirements | | | | |
|--------------------------------------|--|---|---|--|--|
| Monitoring Point Ref./Description | Parameter | Monitoring frequency | Monitoring standard or method | | |
| Up gradient | Water level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH | Quarterly | As specified in Environment Agency Guidance TGN02 Monitoring of Landfill Leachate, Groundwater and | | |
| MEPP | Total Alkalinity, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, Chromium, Copper, Iron, Lead, Nickel, Zinc | Annually | Surface Water' (February 2003), <u>risk assessments for</u> <u>your environmental permit</u> (<u>www.gov.uk</u>), or such other subsequent guidance as may be agreed in writing with the Environment Agency. | | |
| | Hazardous substances | Annually for first six years of operation | | | |
| Down or cross gradient MEPP | Water level, Electrical Conductivity, Chloride, Ammoniacal Nitrogen, pH | Quarterly | | | |
| | Total Alkalinity, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, Chromium, Copper, Iron, Lead, Nickel, Zinc | Annually | | | |
| | Hazardous substances detected in leachate | Annually for first six years of operation then every two years | | | |
| MEPP | Base of monitoring point (mAoD) | Annually | | | |

| Table S3.9 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 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 | 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. |
| 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 | Calibrated handheld monitoring instrument | None |
| One in waste borehole per cell and/or leachate wells for separate cells for gypsum on landfills for non-hazardous waste | Hydrogen Sulphide | Quarterly | Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 v3.0 2010 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. |

| Table S3.9 Landfill gas | - other monitoring | requirements | | |
|--|--|---|--|---|
| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| One in waste borehole or one leachate well per cell for separate cells for stable non reactive hazardous waste, asbestos or gypsum on landfills for non-hazardous waste | Trace gas | Annually | Trace gas analysis in accordance with LFTGN04 v3.0 2010 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. |
| 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: waterlogged frozen snow covered |

| Table S3.9 Landfill gas – other monitoring requirements | | | | | |
|---|-----------|-------------------------|--|--|--|
| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications | |
| Input to microturbine or flare | Trace gas | Annually | Trace gas analysis in accordance with LFTGN04 v3.0 2010 or such other subsequent guidance as may be agreed in writing with the Environment Agency or a trace gas characterisation method agreed 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. | |

| Monitoring point reference or description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|--|-------------------------|--|----------------------|
| Operational Cells or Phases | | | At leachate compliance point as listed in | |
| (Any cell or phases that do not h | ave a final engineered cap agreed in a | accordance | table S3.1. | |
| with condition 2.6) | | | As specified in Environment Agency | |
| MEPP | pH, Electrical Conductivity, Total Alkalinity, Ammoniacal Nitrogen, Chloride, COD, BOD, Cadmium, Chromium, Copper, Lead, Nickel, Iron, Arsenic, Magnesium, Potassium, Total Sulphates, Calcium, Sodium, Zinc, Manganese | | Guidance TGN02 (February 2003) and risk assessments for your environmental permit (www.gov.uk), or such other subsequent guidance as may be agreed in writing with the Environment Agency. | None |
| MEPP | Hazardous substances | Annually | | None |
| MEPP | Depth to base | Annually | | None |
| | (mAoD) | | | |
| Non Operational Cells or Phases | • | • | | |
| (Any cell or phases that have a fina 2.6) | I engineered cap agreed in accordance | with condition | | |

| Table S3.10 Leachate – other monitoring requirements | | | | |
|--|--|-------------------------|-------------------------------|----------------------|
| Monitoring point reference or description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| MEPP | pH, Electrical Conductivity, Total Alkalinity, Ammoniacal Nitrogen, Chloride, COD, BOD, Cadmium, Chromium, Copper, Lead, Nickel, Iron, Arsenic, Magnesium, | Annually | | None |
| | Potassium, Total Sulphates, Calcium, Sodium, Zinc, Manganese | | | |
| MEPP | Hazardous substances | Once every four years | | None |
| MEPP | Depth to base (mAoD) | Annually | | None |

| Monitoring Point Ref. /Description | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---------------------------------------|--|-------------------------|-------------------------------------|---|
| MEPP | Ammoniacal Nitrogen Chloride Suspended Solids Visual Oil and Grease pH Electrical Conductivity | Monthly | Spot sample | As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003) and <u>risk assessments for your environmental</u> <u>permit (www.gov.uk</u>), or such other subsequent guidance as may be agreed in writing with the Environment Agency. |

| Monitoring Point Ref. /Description | Parameter | Limit (including unit) | Monitoring frequency | Monitoring standard or method | Other specifications |
|--|----------------------|------------------------------|-------------------------|-------------------------------|----------------------|
| Ambient air along installation boundary* | Methane | 100 ppmv | Monthly | Flame ionisation detector | |
| | Hydrogen Sulphide | 10 ppb | | Portable meter | |

Schedule 4 – Reporting

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

| Parameter | Reporting | Period ends |
|--|-----------------|--|
| | period | |
| Leachate and/or groundwater level | Every 3 months | 31 March, 30 June, 30 September, 31 |
| As specified by schedule 3, table S3.1 | | December |
| Point source emission to air | Every 12 months | 31 December |
| As specified by schedule 3, table S3.2 | | |
| Point source emission to water (other | Every 3 months | 31 March, 30 June, 30 September, 31 |
| han sewer) | | December |
| As specified by schedule 3, table S3.3 | | |
| Emission to groundwater | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| As specified by schedule 3, table S3.4 | | |
| Landfill gas in external monitoring boreholes | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| As specified by schedule 3, table S3.5 | | |
| Particulate matter in ambient air. | Every 6 months | 30 June, 31 December |
| As required by schedule 3, table S3.6 | | |
| Emission of landfill gas from capped | Every 12 months | 31 December |
| surfaces | | |
| As specified by schedule 3, table S3.7 | | |
| Other groundwater monitoring | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| As specified by schedule 3, table S3.8 | | |
| Other Landfill gas monitoring | Every 3 months | 31 March, 30 June, 30 September, 31 December |
| As specified by schedule 3, table S3.9 | | Desember |
| Trace gas monitoring | Every 12 months | 31 December |
| Other leachate monitoring | Every 12 months | 31 December |
| As specified by schedule 3, table | | |
| S3.10 | | |
| Other surface water monitoring | Every 12 months | 31 December |
| As specified by schedule 3, table | | |
| 53.11 | | |
| Meteorological data | Every 12 months | 31 December |
| Landfill Directive, annex III, section 2 | | |
| Other ambient air monitoring | Every 12 months | 31 December |
| As specified by schedule 3, table | | |

* - 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: | Cubic metres/year | | |
| 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. | | | |
| Landfill gas: | Normalised cubic metres/year | | |
| 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 S3.9 monitoring) | % methane v/v | | |
| Methane generation rate (50%ile from a representative model) | m³/hr | | |

| Table S4.3 Performance Parameters | | | |
|---|-------------------------------|-----------------|-----------------------------------|
| Parameter | Frequency of assessment | Annual total | Unit |
| Energy used (including for leachate treatment) | Annually | | MWh of electricity or natural gas |

| Table S4.4 Reporti | Table S4.4 Reporting Forms | | | | |
|--------------------|--|--------------|--|--|--|
| Media/parameter | Reporting Format | Date of Form | | | |
| Leachate | Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Air | Form Air 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Controlled water | Form Water 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Groundwater | Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Landfill gas | Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Particulate matter | Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | | |
| Waste Return | Waste Return Form RATS2E | 04/05/16 | | | |

| Table S4.4 Reporting Forms | | | | |
|--|--|--------------|--|--|
| Media/parameter | Reporting Format | Date of Form | | |
| Landfill topographical surveys and interpretation | Reporting format to be agreed in writing with the Environment Agency | 04/05/16 | | |

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

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

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

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

| (c) Notification requirements for the detection of any significant adverse environmental effect To be notified within 24 hours of detection | | |
|--|--|--|
| | | |
| 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.

- (a) "Cell layout drawing" means: 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 to land" includes emissions to groundwater.

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

"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.

"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.

"Hazardous substances" as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in <u>risk assessments for your environmental permit</u> (<u>www.gov.uk</u>).

"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.

"Liquids" means any liquid other than leachate within the engineered landfill containment system.

"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.

"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.

"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.

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

"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 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).

"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).

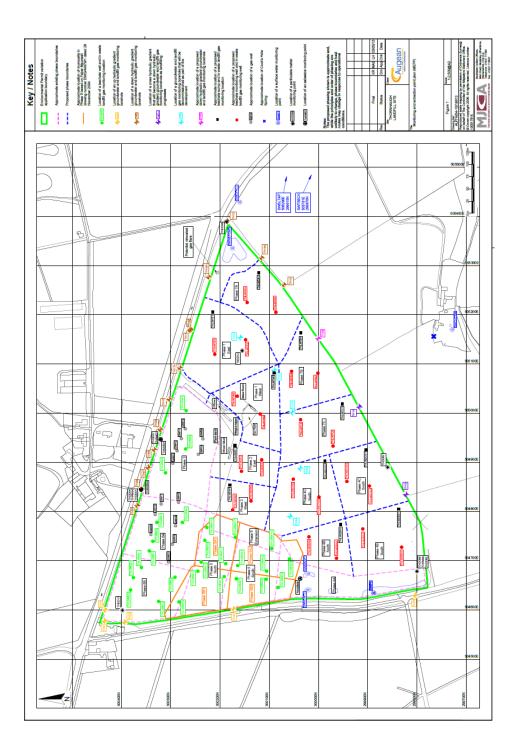
"Review of the Hydrogeological Risk Assessment" means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal 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" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

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.

Schedule 7 – Site plan



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