Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Biffa Waste Services Limited

Biffa Waste Services Ltd
Redhill Landfill Site
Cormongers Lane
Nutfield
Redhill
Surrey
RH1 4ER

Variation application number

EPR/BU8126IY/V018

Consolidated permit number

EPR/BU8126IY

Biffa Waste Services Ltd
Permit number EPR/BU8126IY

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

The variation authorises the operation of an asbestos picking station adjacent to the existing soil treatment facility located within Redhill Landfill Site. This will permit the handpicking of identifiable pieces of bonded asbestos from waste soils. The variation also includes the addition of EWC 19 01 11* Bottom ash and slag containing hazardous substances for disposal into the non-reactive hazardous cell.

We have also removed some unnecessary wording from the permit and reintroduced a Standard Rules set SR2010No12 which was removed from the permit in error during a previous permit variation.

The schedules specify the changes made to the permit.

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

status log of permit A: EPR/BU8126IY (NEQ)		
Description	**Date**	**Comments**
Application received EPR/BU8126IY/A001	09/06/2003	Application for the North East Area of installation.
Response to request for information regarding commercial confidentiality	18/07/2003	
Response to request for information regarding technical information – North East Quadrant	01/11/2003	
Permit determined EPR/BU8126IY (Billing reference: BU8126IY)	03/03/2004	
Planning Inspectors decision	08/02/2006	
Variation determined EPR/BU8126/V002 (Billing reference: KP3534LQ)	12/10/2006	
Variation application EPR/BU8126IY/V003	Duly made 27/04/2007	
Response to request for information Schedule 7 Notice dated 23/11/2007	18/01/2008	
Variation determined (Billing reference: AP3838UC)	07/04/2008	
Variation determined EPR/BU8126IY/V004 (Billing reference: YP3639UH)	04/12/2008	
Variation determined EPR/BU8126IY/V005 (Billing reference: AP3338US)	31/03/2009	
Variation determined EPR/BU8126IY/V006 (Billing reference: AP3132HY)	15/07/2010	
Variation application EPR/BU8126IY/V007	Duly made 22/06/2011	
Variation determined (Billing reference: RP3832HM)	28/11/2011	
Variation application EPR/BU8126IY/V008	Duly made 03/10/2011	
Variation determined (Billing reference: TP3936FN)	06/02/2012	
Variation application EPR/BU8126IY/V009	Duly made 30/05/2012	
Variation determined (Billing reference: KP3236CC)	22/08/2012	
Variation application EPR/BU8126IY/V010	Duly made 22/02/2013	Application to vary permit to include waste code.

Variation determined (Billing reference: KP3137ZF)	20/03/2013	Varied permit issued.
Agency variation determined EPR/BU8126IY/V011 (Billing reference: ZP3839NK)	29/05/2013	Agency variation to implement the changes introduced by IED.
Application received EPR/BU8126IY/V012 (variation and consolidation)	Duly made 28/10/2013	Application to vary and update the permit to modern conditions.
Variation determined (Billing reference: NP3632NS)	04/06/2014	Varied and consolidated permit issued in modern condition format.
Application EPR/BU8126IY/V013	Duly made 24/04/2015	Application to add the EWC codes 01 04 07* and 01 04 08.
Environment Agency Landfill Sector Review 2015 Permit reviewed Variation determined EPR/BU8126IY/V013 (Billing reference: TP3336AY)	10/06/2015	Varied and consolidated permit issued in modern condition format. Including application EPR/BU8126IY/V013 (which would have been EPR/BU8126IY/V014) to add the EWC code 01 04 07* and 01 04 08.
Application received EPR/BU8126IY/V015 (variation and consolidation)	Duly made 08/01/2016	Application to vary the permit (to introduce a qualitative waste acceptance description for the soil treatment facility) and to consolidate with permit EPR/JB3332RV (EAWML 104457).
Variation determined (Billing reference: LP3134RJ)	29/03/2016	Varied and consolidated permit issued.
Application EPR/BU8126IY/V018 (variation and consolidation with EPR/BV2263IW)	Duly made 17/02/2017	Application to vary and update consolidate the permit to modern conditions.
Variation determined EPR/BU8126IY (Billing reference: HP3032DJ)	26/04/2017	Varied and consolidated permit issued in modern condition format.
Application received EPR/BU8126IY/V017 (variation and consolidation)	Duly Made 24/08/2017	Application to vary and update consolidate the permit to modern conditions.
Variation determined EPR/BU8126IY (Billing reference: RP3733JX)	27/10/2017	Varied and consolidated permit issued.
Application EPR/BU8126IY/V018 (variation and consolidation)	Duly made 26/07/2019	Application to vary the permit (to add an asbestos picking station) add waste codes and include SR2010No12 (previously permitted but removed in error)
Additional information received	22/10/2019	Schedule 5 response.
Additional information received	13/12/2019	Alternative operating techniques proposed.
Variation determined EPR/BU8126IY	12/02/2020	Varied and consolidated permit issued.

Status log of permit B: EPR/BV2263IW (SWA)		
Description	**Date**	**Comments**
Application received EPR/BV2263IW/A001	Duly made 06/06/2003	Application for South West Area of installation.

Status log of permit B: EPR/BV2263IW (SWA)		
Description	**Date**	**Comments**
Response to request for information regarding commercial confidentiality	18/07/2003	
Permit determined EPR/BV2263IW (Billing reference: BV2263IW)	03/03/2004	Original permit issued to Biffa Waste Services Limited.
Planning Inspector's decision	08/02/2006	
Variation determined EPR/BV2263IW/V002 (Billing reference: KP3234LW)	12/10/2006	
Variation determined EPR/BV2263IW/V003 (Billing reference: AP3638UK)	14/08/2008	
Variation determined ERP/BV2263IW/V004 (Billing reference: YP3539UK)	04/09/2008	
Agency variation determined EPR/BV2263IW/V005 (Billing reference: EP3835NL)	29/05/2013	Agency variation to implement the changes introduced by IED.
Variation Application EPRBV2263IW/V006	Duly made 29/05/2013	
Variation determined EPR/BV2263IW (Billing reference: JP3539NH)	06/06/2013	Changes to waste tonnages.
Environment Agency Landfill Sector Review Permit reviewed Variation determined EPR/BU8126IY/V018 Permit EPR/BU8126IY (Billing reference: VP3834RJ)	11/02/2016	Varied and consolidated permit issued in modern condition format.
Application EPR/BV2263IW/V008 (consolidation with EPR/BU8126IY)	Duly made 17/02/2017	Application to consolidate with EPR/BU8126IY.
Variation determined EPR/BU8126IY (Billing reference: HP3832DN)	26/04/2017	Permit consolidated with permit EPR/BU8126IY. Permit EPR/BV2263IW and billing cease.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/BU8126IY

Issued to

Biffa Waste Services Limited ("the operator")

whose registered office is

Coronation Road
Cressex
High Wycombe
Bucks
HP12 3TZ

company registration number 00946107

to operate a regulated facility at

Redhill Landfill Site
Cormongers Lane
Nutfield
Redhill
Surrey
RH1 4ER

to the extent set out in the schedules.

The notice shall take effect from 12/02/2020.

Under regulation 27(2) of the Regulations, standard rules **SR2010No12** are conditions of this permit.

Name	Date
Tracey Pollard	**12/02/2020**

Authorised on behalf of the Environment Agency

Schedule 1 – changes in the permit

All conditions have been varied by the consolidated permit EPR/BU8126IY/V018

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BU8126IY

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BU8126IY/V018 authorising,

Biffa Waste Services Limited ("the operator"),

whose registered office is

Coronation Road
Cressex
High Wycombe
Bucks
HP12 3TZ

company registration number 00946107

to operate an installation at

Redhill Landfill Site
Cormongers Lane
Nutfield
Redhill
Surrey
RH1 4ER

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

Under regulation 27(2) of the Regulations, standard rules **SR2010No12** are conditions of this permit.

Name	Date
Tracey Pollard	**12/02/2020**

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 3 March 2004 (as may be varied by a Deed of Variation from time to time) shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Environment Agency.

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

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

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

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

1.3 Energy efficiency

1.3.1 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 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 The operator shall:

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

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

(c) take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

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

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site 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 S1.2a and S1.2b, 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 S1.2a and S1.2b or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.4 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.

2.5 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 within four weeks of the completion of the construction of the relevant landfill infrastructure or other time period agreed in writing with the Environment Agency..

2.6.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.6.5 and 2.6.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.

2.6.9 For the purposes of conditions 2.6.1,2.6.2, 2.6.4 and 2.6.5, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:

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

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

2.6.10 Where the Environment Agency has required further information under condition 2.6.9(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:

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

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

2.7 Waste acceptance

2.7.1 Wastes shall only be accepted for disposal if:

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

(b) they are non- hazardous waste or asbestos and construction materials containing asbestos or stable, non reactive hazardous wastes, 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 For the following activities referenced in schedule 1, table S1.1, A3 and A4. Waste shall only be accepted for treatment if:

(a) it is of a type and quantity listed in schedule 2, table S2.4 and S2.5; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.7.3 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.

2.7.4 For the following activities referenced in schedule 1, table S1.1, A2, 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.

2.7.5 For the following activities referenced in schedule 1, table S1.1, A2, 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 A2, 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 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 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 R103AK00 and R103BE00.

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 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 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, S3.3 and S3.6.

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 sixth 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.

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

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

(a) Leachate specified in tables S3.1 and S3.11;

(b) Point source emissions specified in tables S3.2, S3.3 and S3.6;

(c) Groundwater specified in tables S3.4 and S3.9;

(d) Landfill gas specified in tables S3.5, S3.8 and S3.10;

(e) Surface water specified in table S3.12;

(f) Ambient air specified in table S3.13;

(g) Particulate matter specified in table S3.7;

(h) Contaminated soil in relation to the Soil Treatment Facility operations specified in table S3.14 and

(i) Process monitoring requirements table S3.15.

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

3.5.3 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.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

(a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to the Environment Agency by 31st January each year or such other date as may be agreed in writing by the Agency, with the exception of 4.2.2(c) that must be provided by the end of February each year. The report(s) shall include as a minimum:

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

(b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3

(c) the annual production/treatment set out in schedule 4 table S4.2;

(d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;

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

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

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

(h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and 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 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 (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

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

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

(a) the Environment Agency shall be notified at least 14 days before making the change; and

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities (NEQ and SWA)				
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 (NEQ and SWA)	D5 –Specially engineered landfill; R5 [1] - the recycling or reclamation of inorganic material 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 (NEQ)	D5: Specially engineered landfill	Section 5.2 Part A(1) (a), The disposal of waste in a landfill	Landfill for hazardous waste Separate Stable non-reactive cell including asbestos	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling.
A3 (NEQ)	R5: Recycling/reclamation of other inorganic compounds	Section 5.3 Part A(1)(a)(i) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by biological treatment	Biological treatment of contaminated soils	Treatment of contaminated soils, consisting of the types specified in condition 2.7.

Table S1.1 activities (NEQ and SWA)				
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**
A4 (NEQ)	D9:Physico-chemical treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12	Section 5.3A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	Asbestos removal from soils	From receipt of hazardous waste through to storage of treated waste prior to being subject to bioremediation or sent off-site for disposal. Treatment consisting only of hand picking of identifiable pieces of bonded asbestos from waste soils in a dedicated enclosed picking line. All treatment and storage shall take place on an impermeable surface with a sealed drainage system within the area highlighted Asbestos Picking Station as shown on drawing number 003 – Submitted with the permit variation application dated 02/04/2019. Waste subject to this process shall only be contaminated with asbestos alone or in combination with hydrocarbons. Asbestos removed from the soil shall be double-bagged and stored in a sealed skip. Hazardous waste specified in table S2.5

Table S1.1 activities (NEQ and SWA)				
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**
A5 (NEQ)	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	S5.6 A(1)(a) The temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in sections 5.1, 5.2 and 5.3.	Temporary storage of hazardous waste pending treatment or disposal	Asbestos contaminated soil should be stored on an impermeable surface with a sealed drainage system within the area highlighted Asbestos Picking Station as shown on drawing number 003 – Submitted with the permit variation application dated 02/04/2019 in a way that minimises asbestos fibre emissions. Subject to any other requirements of this permit wastes shall be stored for no longer than 1 year prior to disposal. Hazardous wastes as specified in table S2.4 and S2.5
Note [1] – SWA permit area only.				
Directly Associated Activities				
A4 (NEQ and SWA)	R1: use principally as a fuel to generate energy	-	Pre-treatment and utilisation of landfill gas for energy recovery in an appliance with a rated thermal input < 50MW	Landfill gas arising from the landfill (under permit number EPR/BU8126IY and EPR/BV2263IW).
A5 (NEQ)	D8 – Biological treatment of waste	-	Treatment of leachate in a facility with a capacity of <50 t/day	Leachate arising from the landfill (under permit number EPR/BU8126IY).
A6 (SWA)	D8 – Biological treatment of waste	-	Treatment of leachate in a facility with a capacity of <50 t/day	Leachate arising from the landfill (under permit number EPR/BV2263IW).

Table S1.1 activities (NEQ and SWA)				
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**
A7 (NEQ and SWA)	N/A	-	Management of leachate including re-circulation and temporary storage of leachate pre-discharge, and off-site tankering	Leachate arising from the landfill (under permit number EPR/BU8126IY and EPR/BV2263IW).
A8 (NEQ and SWA)	N/A	-	Flaring of landfill gas for disposal in an appliance	Landfill gas arising from the landfill.
A9 (NEQ and SWA)	D6: release to water body except seas/ oceans	-	Discharges of site drainage from the landfill	From surface water and groundwater management system to point of entry to controlled waters.

Table S1.2a Operating techniques (NEQ)		
Description	**Parts**	**Date Received**
Application	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Forms for 'Patteson Court, North East Quadrant'. The technical details and standards contained within these documents shall apply to the NEQ, save that the Operator shall install on the sides of the engineered containment a leachate drainage layer of not less than 300mm thickness measured perpendicular to the surface of those sides.	09/06/2003
	The revised Patteson Court Southwest Area Landfill Risk Assessment report by Environmental Simulations International Ltd, dated December 2003, received under cover of letter from applicant dated 12 December 2003 (NEQ and SWA).	12/12/2003
	The information contained within letters from the applicant dated 26 September 2003, 11 November 2003 and 12 December 2003, which should be considered as part of the Applications (NEQ and SWA).	26/09/2003, 11/11/2003 and 12/12/2003
Variation application EPR/BU8126IY/V002	The response to questions C2.1, C2.2, C2.3, C2.4, C2.5 and C2.6 of the variation application for Redhill Landfill Site (NEQ) Permit Ref: BU8126IY received under cover letter of applicant dated 30 March 2007.	02/04/2007

Table S1.2a Operating techniques (NEQ)		
Description	**Parts**	**Date Received**
Schedule 7 Notice	Response to schedule 7 Notice dated 23 November 2007.	18/01/2008
Operations	Gas Management Plan & Control specification, edition IV, dated November 2007.	11/2007
	Redhill Landfill Site Odour Management Plan 2011 Approved September 2011.	01/2008
	Particulate Monitoring and Management Plan	08/2009
Variation Application	The response to questions C2.1, C2.4, C2.7, C2.9 and associated drawings showing revised pre-settlement contours, contained in Variation application for Redhill Landfill Site North East Quadrant permit reference BU8126IY. Revised engineering drawing details for interface between the North East Quadrant and the South West Area comprising: Drawing 1 – Interface lining system formation surface – Optimised layout, dated May 2008 Drawing 2 – Details and cross sections, dated April 2008	03/03/2007 07/07/2008
Variation Application EPR/BU8126IY/V007	All	22/06/2011
Operations	Asbestos Management Plan	10/2011
Response to Schedule 5 Notice Request for additional information (request dated 03/10/2011)	All	20/10/2011
Variation Application EPR/BU8126IY/V008	Non-Technical Summary	09/09/2011
Operations	Odour Management Plan	11/2011
Response to Schedule 5 Notice	Landfill Gas Emissions Assessment and Monitoring	09/11/2011
Variation application EPR/BU8126IY/V009	Part C2 Section 5c - Non Technical Summary Part C3 Section 3a – Technical standards	30/05/2012
Response to Schedule 5 Notice dated 22/06/2012	All	29/06/2012

Table S1.2a Operating techniques (NEQ)		
Description	**Parts**	**Date Received**
Further information received	Details of the air extraction from the biopiles Waste codes Details referring to accepting green wastes	19/07/2012
Further information received	VOCs monitoring Details of off spec compost accepted on site Acceptance and storage procedures	03/08/2012
Variation Application EPR/BU8126IY/V010	Non-Technical Summary NTS_833_STF_Feb_2013_ns	22/02/2013
Further information received	Operator confirmed they will operate the soil treatment facility within the requirements of sector guidance note IPPC S5.06	19/03/2013
Variation Application EPR/BU8126IY/V012	Hydrogeological Risk Assessment (Report Reference: 60519R1, October 2013) Non- Technical Summary and Supporting Information NTS_833_04_2013_ns	03/06/2013
Variation Application EPR/BU8126IY/V012	Odour management Plan – 30/09/2011 (reviewed internally 2012 annual review) Surface Water Management Plan – internal only 21/07/2012 Asbestos Management Plan – 10/10/2011 (reviewed as part of the annual review 2012 internal only) Particulate Monitoring and Management Plan – 24/01/2013 Leachate Management Plan – 12/02/2013 Leachate re-circulation Plan – 10/07/2012	03/06/2013
Further information received Variation Application EPR/BU8126IY/V012	Additional information on pre settlement level drawing reference, soil treatment facility waste codes, leachate and surface water monitoring. Redhill Landfill North East Quadrant: HRA review (Report Reference: 6051R1, October 2013).	27/10/2013
Further information received Variation Application EPR/BU8126IY/V012	New leachate monitoring and extraction well locations – As shown on 'NE Quadrant Leachate Infrastructure, drawing no: R1233600', dated 29.01 2014. Landfill Gas Management Plan 2014, Version 4	31/01/2014
Landfill Gas Management Plan	Landfill Gas Management Plan 2014, Version 6	31/01/2014

Table S1.2a Operating techniques (NEQ)		
Description	**Parts**	**Date Received**
Odour Management Plan	Redhill Landfill Site Odour Management Plan, 01/2014	01/2014
Operations	Asbestos Management Plan for Asbestos Cells 6&8	05/2014
Variation Application EPR/BU8126IY/V015	Section 2.2 ('Modification to the Soil Treatment Facility') of 'EPVA – Supporting Statement'	09/11/2015
Improvement programme requirement IC13 – Restoration Plan	Document reference '20151023_Redhill_RestorationPlan_IC13_FINAL' Site Restoration Masterplan reference 'R103BE00' Document reference 'DPL/04 Pre-acceptance procedure, waste reception, handling and discharge' Document reference 'DGNL/04 Pre-acceptance and waste reception' Document reference 'STF3 Restoration Soils Risk Assessment, Redhill landfill' (dated March 2010)	13/11/2015
Variation Application EPR/BU8126IY/V015	Confirmation that Cell 7 meets the requirements of Pre-operational Measure PO2.	18/03/2016
Application EPR/BU8126IY/V018	Application form C3 section 3a – technical standards and referenced supporting information	Duly made 26/07/2019
Response to Schedule 5 notice dated 04/09/2019	Response to questions 1, 4, 5, 6, 7 (except the technique of dropping bagged asbestos sheet into the skip), 8, 10, 11 within the Schedule 5 response	22/10/2019
Response to operating technique enquiry and further information request dated 10/12/2019	Response to point 1 waste reception sampling. The operator confirms the first load of each waste stream will be sampled and analysed and then 10% of all other received loads (for each waste stream) will be sampled and analysed. Response to point 2 dropping of asbestos sheet. The operator confirms picked double bagged asbestos cement pieces will be carried to the asbestos skip which will be kept locked except for when being loaded.	13/12/2019

Table S1.2b Operating techniques (SWA)		
Description	**Parts**	**Date Received**
Application	The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Forms for 'Patteson Court, South West Area'. The technical details and standards contained within these documents shall apply to the SWA. The revised Patteson Court Southwest Area Landfill Risk Assessment Report by Environmental Simulations International Limited, dated December 2003, received under cover of letter from applicant date 12 December 2003. The information contained within letters from the applicant dated 26 September 2003, 11 November 2003 and 12 December 2003, which should be considered as part of the applications.	06/06/2003 12/12/2003 26/09/2003, 11/11/2003 and 12/12/2003
Variation Application AP3638UK	The response to questions C2.1, C2.4, C2.7, C2.9 and associated drawings showing revised pre-settlement contours, contained in Variation application for Redhill Landfill South West Area Permit reference BV2263, with the following exclusions; • Interface Lining Systems; • Drawing 1 Optimised Layout; and • Drawing 2 Details and cross sections.	30/03/2007
Operations	Odour Management Plan	November 2011
Landfill Gas Management Plan	Landfill Gas Management Plan 2014, Version 6	31/01/2014
Restoration Plan	Former Improvement Condition 13 (NEQ also SWA) - reference 20151023_Redhill Restoration Plan IC13 FINAL	October 2015

Table S1.3 Improvement programme requirements (NEQ and SWA)		
Reference	**Requirement**	**Date**
IP3 (NEQ and SWA)	The Operator shall submit for the approval of the Agency a fully justified review, in writing, of proposed trigger substances for the period after dewatering has stopped and normal and natural groundwater flow conditions have been resumed. All existing relevant data from boreholes that are up gradient boreholes along the eastern boundary (H90/4, H90/7, H96/5B, H98/GWB/20.0, H98/GWA/18.8, H98/GWA/64, H90/6D & H90/8, H90/6S, and the new additional boreholes) shall be used including groundwater compositional and level data and leachate quality data to derive suitable triggers for boreholes that are down gradient boreholes along the west boundary (H90/1, H90/2 and H90/3, H90/4, H98/GWB/20.0.	3 months prior to cessation of dewatering / turning off pumps.

Table S1.3 Improvement programme requirements (NEQ and SWA)		
Reference	**Requirement**	**Date**
	H98/GWB/23.0, H98/GWC/30, H98/GWC/85, H0501A, H0501B, H0502A, H0502B, H0503A, H0503B, H0504A, H0504B, H0505A, H0505B, H0506A, H0506B, H0507A, H0507B, H0508A, H0508B, H0509A and H0509B). Arsenic, Sulphate and Benzene shall be considered as additional trigger substances to ammoniacal-N, Cl, Ni, K, Cd, mecoprop and tributyltin. On approval by the Agency the triggers shall only be effective commencing when normal and natural flow conditions have resumed after dewatering has stopped.	
IP13 (NEQ)	The operator shall submit to the Environment Agency in writing for approval a restoration plan for the site which includes waste quantities, waste types, and waste acceptance criteria for wastes for restoration.	Completed.
IP8 (SWA)	The Operator shall submit to the Environment Agency in writing for approval, waste acceptance criteria for leachate accepted from offsite.	Within 3 months of the issue of this Permit Variation

Table S1.4 Pre-operational measures (NEQ only)		
Reference	**Operation**	**Pre-operational Measures**
PO1	Switching off or reducing groundwater pumping	The Operator shall submit justified proposals in writing to forewarn the Agency the date when dewatering shall cease altogether or be steadily reduced and when normal and natural groundwater flow conditions shall be resumed and the date when the revised groundwater triggers shall apply.
PO2	Leachate level and quality at the base of site or within waste mass	The operator shall not increase the leachate level limit above a 1 metre head for any phase or cell of the site unless the following infrastructure has been installed in compliance with 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water, TGN02' and with written agreement from the Environment Agency: • At least two leachate-level monitoring points in addition to a collection sump should be provided for each hydraulically separated cell of less than 5 ha in size. • These points should be capable of recording the level of leachate in relation to the base of the site. • Leachate monitoring points should include points remote from the leachate drainage and pumping systems.

Table S1.5 Annual waste input limits (NEQ and SWA)	
Category	**Limit Tonnes/ Year**
Inert waste (SWA)	250,000
Non-hazardous waste (NEQ)	750,000
Stable, non-reactive hazardous wastes (NEQ)	120,000
Hazardous waste (Soil treatment facility) (NEQ)	79,999 of which no more than 25,000 tonnes are asbestos contaminated soils
Waste for restoration (NEQ and SWA)	250,000
Leachate from offsite accepted at the onsite leachate treatment plant (SWA)	As per Improvement Programme 8 (IP8 SWA), Table S1.3 of the consolidated permit.
Asbestos contaminated soils (soil treatment facility) (NEQ)	25,000

Schedule 2 – List of permitted wastes

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 01	**wastes from mineral excavation**
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	**wastes from physical and chemical processing of metalliferous minerals**
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 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 10
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 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 02	**wastes from the preparation and processing of meat, fish and other foods of animal origin**
02 02 01	sludges from washing and cleaning

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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 baking and 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
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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 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 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 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 01 17	bitumen
05 06	**wastes from the pyrolytic treatment of coal**
05 06 04	waste from cooling columns
05 07	**wastes from natural gas purification and transportation**
05 07 02	wastes containing sulphur
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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
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 mentioned 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
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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 08	photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	**Wastes from thermal processes**
10 01	**wastes from power stations and other combustion plants (except 19)**
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02	coal fly ash
10 01 03	fly ash from peat and untreated wood
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 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 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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10 [1]	mill scales
10 02 12 [2]	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**
10 05 01	slags from primary and secondary production
10 05 04	other particulates and dust
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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 10	**wastes from casting of non-ferrous pieces**
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 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 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 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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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)
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11	**Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy**
11 01	**wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, 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 02	zinc ash
12	**Wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01	**wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 02	ferrous metal dust and particles
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
15	**Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified**

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
15 01	**packaging (including separately collected municipal packaging waste)**
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**Wastes not otherwise specified in the list**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 19	plastic
16 01 20	glass
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 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**
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

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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 11	cables other than those mentioned in 17 04 10
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	**insulation materials and asbestos-containing construction materials**
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 09	**other construction and demolition wastes**
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
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 dressings, plaster casts, linen, disposable clothing, diapers)
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
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 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**

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
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**
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 09	grease and oil mixture from oil/water separation containing only edible oil and fats
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 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 04	plastic and rubber
19 12 07	wood other than that mentioned in 19 12 06
19 12 08	textiles
19 12 09	minerals (for example sand, stones)

Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste (NEQ and SWA)	
Waste code	**Description**
19 12 10	combustible waste (refuse derived fuel)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**separately collected fractions (except 15 01)**
20 01 08	biodegradable kitchen and canteen waste
20 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 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 41	wastes from chimney sweeping
20 01 99 [1]	Other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection
20 02	**garden and park wastes (including cemetery 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
Note 1 – NEQ permit area only. Note 2 – SWA permit area only.	

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 05*	other tailings containing dangerous substances
01 03 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 07*	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02	wastes from the textile industry
04 02 19*	sludges from on-site effluent treatment containing dangerous substances
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and metallic oxides
06 03 11*	solid salts containing cyanides
06 03 13*	solid salts containing heavy metals
06 03 15*	metallic oxides containing heavy metals
06 04	metal-containing wastes other than those mentioned in 06 03
06 04 03*	wastes containing arsenic
06 04 04*	wastes containing mercury
06 04 05*	wastes containing other heavy metals
06 05	sludges from on-site effluent treatment
06 05 02*	sludges from on-site effluent treatment containing dangerous substances
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
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 02*	spent activated carbon (except 06 07 02)
06 13 04*	wastes from asbestos processing
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 10*	other filter cakes and spent absorbents
07 01 11*	sludges from on-site effluent treatment containing dangerous substances
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 10*	other filter cakes and spent absorbents
07 02 11*	sludges from on-site effluent treatment containing dangerous substances
07 02 14*	wastes from additives containing dangerous substances
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 10*	other filter cakes and spent absorbents
07 03 11*	sludges from on-site effluent treatment containing dangerous substances
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

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
07 04 10*	other filter cakes and spent absorbents
07 04 11*	sludges from on-site effluent treatment containing dangerous substances
07 04 13*	solid wastes containing dangerous substances
07 05	wastes from the MFSU of pharmaceuticals
07 05 10*	other filter cakes and spent absorbents
07 05 11*	sludges from on-site effluent treatment containing dangerous substances
07 05 13*	solid wastes containing dangerous substances
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 10*	other filter cakes and spent absorbents
07 07 11*	sludges from on-site effluent treatment containing dangerous substances
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 04*	oil fly ash and boiler dust
10 01 13*	fly ash from emulsified hydrocarbons used as fuel
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing dangerous substances
10 01 16*	fly ash from co-incineration containing dangerous substances
10 01 18*	wastes from gas cleaning containing dangerous substances
10 01 20*	sludges from on-site effluent treatment containing dangerous substances
10 01 22*	aqueous sludges from boiler cleansing containing dangerous substances
10 02	wastes from the iron and steel industry
10 02 07*	solid wastes from gas treatment containing dangerous substances
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances
10 03	wastes from aluminium thermal metallurgy
10 03 19*	flue-gas dust containing dangerous substances
10 03 23*	solid wastes from gas treatment containing dangerous substances
10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances
10 04	wastes from lead thermal metallurgy
10 04 04*	flue-gas dust
10 04 06*	solid wastes from gas treatment
10 04 07*	sludges and filter cakes from gas treatment
10 05	wastes from zinc thermal metallurgy
10 05 03*	flue-gas dust
10 05 05*	solid waste from gas treatment
10 05 06*	sludges and filter cakes from gas treatment
10 06	wastes from copper thermal metallurgy
10 06 03*	flue-gas dust

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
10 06 06*	solid wastes from gas treatment
10 06 07*	sludges and filter cakes from gas treatment
10 08	wastes from other non-ferrous thermal metallurgy
10 08 15*	flue-gas dust containing dangerous substances
10 08 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 09	wastes from casting of ferrous pieces
10 09 05*	casting cores and moulds which have not undergone pouring containing dangerous substances
10 09 07*	casting cores and moulds which have undergone pouring containing dangerous substances
10 09 09*	flue-gas dust containing dangerous substances
10 09 11*	other particulates containing dangerous substances
10 09 13*	waste binders containing dangerous substances
10 10	wastes from casting of non-ferrous pieces
10 10 05*	casting cores and moulds which have not undergone pouring, containing dangerous substances
10 10 07*	casting cores and moulds which have undergone pouring, containing dangerous substances
10 10 09*	flue-gas dust containing dangerous substances
10 10 11*	other particulates containing dangerous substances
10 10 13*	waste binders containing dangerous substances
10 11	wastes from manufacture of glass and glass products
10 11 09*	waste preparation mixture before thermal processing, containing dangerous substances
10 11 11*	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 11 13*	glass-polishing and -grinding sludge containing dangerous substances
10 11 15*	solid wastes from flue-gas treatment containing dangerous substances
10 11 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances
10 11 19*	solid wastes from on-site effluent treatment containing dangerous substances
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 09*	solid wastes from gas treatment containing dangerous substances
10 12 11*	wastes from glazing containing heavy metals
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
10 13 12*	solid wastes from gas treatment containing dangerous substances
10 14	waste from crematoria
10 14 01*	waste from gas cleaning containing mercury

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)		
EWC code	**Description**	
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)	
11 01 16*	saturated or spent ion exchange resins	
11 02	wastes from non-ferrous hydrometallurgical processes	
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)	
11 02 07*	other wastes containing dangerous substances	
11 05	wastes from hot galvanising processes	
11 05 03*	solid wastes from gas treatment	
11 05 04*	spent flux	
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 16*	waste blasting material containing dangerous substances	
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 11*	metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers	Dangerous component to be asbestos only. Excludes sludges and biodegradable substances.
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 11*	brake pads containing asbestos	Excludes sludges and biodegradable substances.
16 02	wastes from electrical and electronic equipment	
16 02 09*	transformers and capacitors containing PCBs	
16 02 12*	discarded equipment containing free asbestos	Excludes sludges and biodegradable substances.
16 03	off-specification batches and unused products	
16 03 03*	inorganic wastes containing dangerous substances	
16 04	waste explosives	
16 04 01*	waste ammunition	
16 04 03*	other waste explosives	

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)		
EWC code	**Description**	
16 08	spent catalysts	
16 08 02*	spent catalysts containing dangerous transition metals[1] or dangerous transition metal compounds	
16 08 05*	spent catalysts containing phosphoric acid	
16 08 07*	spent catalysts contaminated with dangerous substances	
16 11	waste linings and refractories	
16 11 01*	carbon-based linings and refractories from metallurgical processes containing dangerous substances	
16 11 03*	other linings and refractories from metallurgical processes containing dangerous substances	
16 11 05*	linings and refractories from non-metallurgical processes containing dangerous substances	
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	concrete, bricks, tiles and ceramics	
17 01 06*	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances	
17 02	wood, glass and plastic	
17 02 04*	glass, plastic and wood containing or contaminated with dangerous substances	
17 04	metals (including their alloys)	
17 04 09*	metal waste contaminated with dangerous substances	
17 04 10*	cables containing oil, coal tar and other dangerous substances	
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 06	insulation materials and asbestos-containing construction materials	
17 06 01*	insulation materials containing asbestos	Excludes biodegradable substances
17 06 03*	other insulation materials consisting of or containing dangerous substances	
17 06 05*	construction materials containing asbestos[2]	Excludes biodegradable substances.

[1] For the purpose of this entry, transition metals are: scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum. These metals or their compounds are dangerous if they are classified as dangerous substances. The classification of dangerous substances shall determine which among those transition metals and which transition metal compounds are hazardous.

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

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
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 01	wastes from incineration or pyrolysis of waste
19 01 05*	filter cake from gas treatment
19 01 07*	solid wastes from gas treatment
19 01 10*	spent activated carbon from flue-gas treatment
19 01 11*	Bottom ash and slag containing hazardous substances
19 01 13*	fly ash containing dangerous substances
19 01 15*	boiler dust containing dangerous substances
19 01 17*	pyrolysis wastes containing dangerous substances
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 04*	premixed wastes composed of at least one hazardous waste
19 02 05*	sludges from physico/chemical treatment containing dangerous substances
19 02 11*	other wastes containing dangerous substances
19 03	stabilised/solidified wastes [3]
19 03 04*	wastes marked as hazardous, partly [4] stabilised
19 03 06*	wastes marked as hazardous, solidified
19 04	vitrified waste and wastes from vitrification
19 04 02*	fly ash and other flue-gas treatment wastes
19 08	wastes from waste water treatment plants not otherwise specified
19 08 06*	saturated or spent ion exchange resins
19 08 07*	sludges from regeneration of ion exchangers
19 08 08*	membrane system waste containing heavy metals
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water

[3] 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.

[4] A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle or long term.

Table S2.2 Permitted waste types for disposal in the stable non-reactive hazardous waste cell (NEQ)	
EWC code	**Description**
19 10	wastes from shredding of metal-containing wastes
19 10 03*	fluff-light fraction and dust containing dangerous substances
19 10 05*	other fractions containing dangerous substances
19 11	wastes from oil regeneration
19 11 07*	wastes from flue-gas cleaning
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 21*	fluorescent tubes and other mercury-containing waste

Table S2.3 Permitted waste types for restoration (NEQ and SWA)	
Waste code	**Description**
01	**Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals**
01 01	**wastes from mineral excavation**
01 01 02	wastes from mineral non-metalliferous excavation
01 04	**wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
02	**Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing**
02 01	**wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**
02 01 03	plant-tissue waste
02 04	**wastes from sugar processing**
02 04 01	soil from cleaning and washing beet
03	**Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard**
03 03	**wastes from pulp, paper and cardboard production and processing**
03 03 05	de-inking sludges from paper recycling
03 03 09	lime mud waste
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 and bricks
17 05	**soil (excluding excavated soil from contaminated sites), stones and dredging spoil**

Table S2.3 Permitted waste types for restoration (NEQ and SWA)	
Waste code	**Description**
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
19	**Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use**
19 05	**wastes from aerobic treatment of solid wastes**
19 05 03	off-specification compost
19 08	**wastes from waste water treatment plants not otherwise specified**
19 08 05	sludges from treatment of urban waste water
19 09	**wastes from the preparation of water intended for human consumption or water for industrial use**
19 09 02	sludges from water clarification
19 12	**wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 09	minerals (for example sand, stones)
19 13	**wastes from soil and groundwater remediation**
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 02	**garden and park wastes (including cemetery waste)**
20 02 02	soil and stones

Table S2.4 Permitted waste types accepted for treatment excluding liquid waste (Soil Treatment Facility Activity A3) (NEQ)		
Waste code	**Waste code**	
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 04	wastes from physical and chemical processing of non metalliferous minerals	
01 04 07*	wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals	Excludes waste with free flowing liquids
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07	Excludes waste with free flowing liquids
01 04 09	waste sand and clays	
01 05	drilling muds and other drilling wastes	
01 05 04	freshwater drilling muds and wastes	
01 05 05 *	oil-containing drilling muds and wastes	
01 05 06 *	drilling muds and other drilling wastes containing dangerous substances	
05	WASTES FROM PETROLEUM REFINIGN, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL	
05 01	wastes from petroleum refining	

Table S2.4 Permitted waste types accepted for treatment excluding liquid waste (Soil Treatment Facility Activity A3) (NEQ)	
Waste code	**Waste code**
05 01 02*	desalter sludges
05 01 03*	tank bottom sludges
05 01 04*	acid alkyl sludges
05 01 05*	oil spills
05 01 06*	oily sludges from maintenance operations of the plant or equipment
05 01 09*	sludges from on-site effluent treatment containing dangerous substances
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 15*	spent filter clays
13	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 05	oil/water separator contents
13 05 01*	solids from grit chambers and oil/water separators
13 05 02*	sludges from oil/water separators
13 05 03*	interceptor sludges
13 05 08*	mixtures of wastes from grit chambers and oil/water separators
16	WASTE NOT OTHERWISE SPECIFIED IN THE LIST
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 08*	waste containing oil
16 07 09*	waste containing other dangerous substances
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02	wood, glass and plastic
17 02 01	wood
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03 *	soil and stones containing dangerous substances
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 05 *	dredging spoil containing dangerous substances
17 05 06	dredging spoil other than those mentioned in 17 05 05
17 05 07 *	track ballast containing dangerous substances
17 05 08	track ballast other than those mentioned in 17 05 07
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 02	waste from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed waste composed only of non hazardous wastes

Table S2.4 Permitted waste types accepted for treatment excluding liquid waste (Soil Treatment Facility Activity A3) (NEQ)	
Waste code	**Waste code**
19 02 04*	premixed wastes composed of at least one hazardous waste
19 02 05*	sludges from physico/chemical treatment containing dangerous substances
19 02 06	sludges from physico/chemical treatment other than mentioned in 19 02 05
19 02 07*	oil and concentrates from separation
19 03	stabilised/solidified wastes 1
19 03 04*	wastes marked as hazardous, partly1 stabilised
19 03 05	stabilised wastes other than those mentioned in 19 03 04
19 03 06*	wastes marked as hazardous, solidified
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost
19 08	wastes from waste water treatment plants not otherwise specified
19 08 01	screenings
19 08 02	waste from desanding
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06
19 13	wastes from soil and groundwater remediation
19 13 01 *	solid waste from soil remediation containing dangerous substances
19 13 02	solid waste from soil remediation other than those mentioned in 19 13 01
19 13 03 *	sludges from soil remediation containing dangerous substances
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 38	wood other than that mentioned in 20 01 37
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (woody waste only)
20 03	other municipal wastes
20 03 03	street-cleaning residues
Note 1: A waste is considered as partly stabilised if, after the stabilisation process, dangerous constituents which have not been changed completely into non-dangerous constituents could be released into the environment in the short, middle or long term.	

Table S2.5 Permitted waste types and quantities for handpicking of asbestos waste (Soil Treatment Facility A4) (NEQ)	
Exclusions	**Wastes having any of the following characteristics shall not be accepted:** **Asbestos in unbound fibrous form (FREE CHRYSOTILE FIBROUS ASBESTOS IN THE SOIL MUST BE < 0.1% w/w. OTHER FORMS OR MIXED FORMS OF FIBROUS ASBESTOS IN THE SOIL MUST BE <0.01% w/w)** **Wastes with hazard codes HP1, HP2, HP3, HP9, HP12, HP15**
Waste code	**Description**
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 05	**soil (including excavated soil from contaminated sites), stones and dredging spoil**
17 05 03*	soil and stones containing hazardous substances (CONTAINS IDENTIFIABLE PIECES OF BONDED ASBESTOS (any particle of a size that can be identified as potentially being asbestos by a competent person if examined by the naked eye))
17 05 04	soil and stones other than those mentioned in 17 05 03 (CONTAINS IDENTIFIABLE PIECES OF BONDED ASBESTOS (any particle of a size that can be identified as potentially being asbestos by a competent person if examined by the naked eye))
17 06	**insulation materials and asbestos-containing construction materials**
17 06 05*	construction materials containing asbestos (DISCRETE PIECES OF BONDED ASBESTOS WITHIN THE SOIL MATRIX ONLY)

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements (NEQ – Operational Cells and SWA – Non Operational Cells)			
Monitoring point reference/Description	**Limit**	**Monitoring frequency**	**Monitoring standard and method**
Operational Cells or Phases (NEQ) (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition, 2.5)			
Cell 1(1C), Cell 2 (2D), Cell 3 (3D) and Cell 4 (4D) as shown on drawing 'Site Monitoring Plan', reference R1180305, revision 5, dated 10/03/16	1 m above cell base [1]	Monthly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Cell 5 (5A, 5B, 5C), Cell 6 (6A, 6B, 6C) and Cell 7 (7B, 7C, 7D) as shown on drawing 'Site Monitoring Plan', reference R1180305, revision 5, dated 10/03/16	3 m above cell base		
Non Operational Cells or Phases (SWA) (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition, 2.5)			
Leachate compliance points: LW17 (83303117), LW18 (83303118), LW19 (83303119), LW20 (83303120), LW21 (8330321), LW22 (83303122), LW23 (83303123) and LW24 (83303124) as shown on drawing 'Site Monitoring Plan' ref R1180900 Rev 4 dated 14/12/2015	2 m above cell base	Quarterly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' or such other subsequent guidance as may be agreed in writing with the Environment Agency.
Note 1: The operator shall not increase the leachate level limit above a 1 metre head, unless they can comply with the measures specified in pre-operational measure (PO2) in Schedule 1, Table S1.4.			

Table S3.2 Point source emissions to air – emission limits and monitoring requirements (NEQ and SWA)						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
LFGE 1 and 3 on Plan 2/SWA/03; LFGE 4, 5 and 6 on Plan 2/NEQ/03	Oxides of Nitrogen	Gas utilisation plant	500 mg/m^3	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	CO		1400 mg/m^3			
	Total VOCs		1000 mg/m^3			
LFGE 2 on Plan SWA/03	Oxides of Nitrogen	Gas utilisation plant	650 mg/m^3	Hourly mean	Annually	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	CO		1500 mg/m^3			
	Total VOCs		1750 mg/m^3			
Flare A2 on Plan 2/SWA/03;	Oxides of Nitrogen	Landfill gas flares	150 mg/m^3	Hourly mean	Annually	

Table S3.2 Point source emissions to air – emission limits and monitoring requirements (NEQ and SWA)						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
Flare A4 and A5 on Plan 2/NEQ/03	CO		50 mg/m^3			As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency Monitoring is unnecessary where the flare is active for <10% of the year
	Total VOCs		10 mg/m^3			
Biofilter (NEQ)	Total VOCs		75 mg/m^3	Hourly mean	Monthly	To be agreed in writing with the Environment Agency
	Benzene		5 mg/m^3			
	Total Petroleum Hydrocarbons (TPH)		-			
	Toluene		-			
	Ethly Benzene		-			
	Xylene		-			
	Polycyclic Aromatic Hydrocarbons (PAH)		-			

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements (NEQ and SWA)						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (incl unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
WR3016 (Quarry Discharge) as shown on drawing no. R1180302 dated 27.03.2012to the Redhill Brook (NEQ)	Volume	Discharge from the Dewatering Outlet	9,800 m3	Daily	Continuous	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), or such other subsequent guidance as may be agreed in writing with the Environment Agency. Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011 or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Suspended Solids		25 mg/l	Spot Sample	Monthly	
	Oil and Grease		No visible trace at Nutfield Marsh			
	pH		>6 <9			
	Chloride		250 mg/l			
	Ammoniacal Nitrogen		3 mg/l			
	Arsenic		0.01 mg/l			
	Cadmium		0.4 µg/l			
	Nickel		0.02 mg/l			
	Potassium		7 mg/l			
	Sulphate (SO_4)		250 mg/l			
	Tributyltin		0.00002 mg/l			
	Mecoprop		0.002 mg/			
	Benzene		0.001 mg/l			
WR3017 (Lagoon Discharge) as shown on drawing no.	Volume of wheel - wash effluent	Discharge from the Settlement Lagoon	25 m^3 / day	Daily	Continuous	
	Suspended Solids		30 mg/l	Spot sample	Monthly	
	Oil and Grease		None visible at Redhill Brook			

Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements (NEQ and SWA)						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (incl unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
R1180302 dated 27.03.2012 To the Redhill Brook (SWA)	pH		>6 and <9			
	Chloride		150 mg/l			

Table S3.4 Groundwater – emission limits and monitoring requirements (NEQ and SWA)					
Monitoring point reference	**Parameter [1]**	**Limit (including unit) [1]**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
H90/4, H98/GWB/20, H98/GWB/23.0, H98/GWC/30, H98/GWC/85, H0501A, H0501B, H0502A, H0502B, H0503A, H0503B, H0504A, H0504B, H0505A, H0505B, H0506A, H0506B, H0507A, H0507B, H0508A, H0508B, H0509A, H0509B, H1010A, H1010B, H1011A, H1011B as shown on drawing no. R1180302 dated 27.03.2012 (NEQ); H90/1, H90/2 and H90/3 as shown on drawing no. R1180302 dated 27.03.2012 (SWA)	pH	None set	Spot Sample	Monthly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), or such other subsequent guidance as may be agreed in writing with the Environment Agency. Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011) or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Chloride			Monthly	
	Ammoniacal nitrogen			Monthly	
	Nickel			Monthly	
	Potassium			Monthly	
	Cadmium			Quarterly	
	Mecoprop			Quarterly	
	Tributyltin oxide			Annually	
Note 1: Or otherwise agreed in accordance with the improvement programme in Schedule 1, Table S1.3.					

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements (NEQ and SWA)				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
North East Quadrant (NEQ)				
East side: Chilmead Farm, **G90** - G90/51, G90/55, G90/58 and G90/62	Methane	no limit	Monthly (operating phase) Every six months (aftercare phase)	As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: • waterlogged • frozen • snow covered
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
West side: **G90** - G91/69 **North west:** **G050** – 83301011 (G0501A), 83301012 (G0501B), 83301013 (G0501C), 83301021 (G0502A), 83301022 (G0502B), 83301023 (G0502C), 83301031 (G0503A), 83301032 (G0503B), 83301033 (G0503C),	Methane	1 %v/v	Monthly (operating phase) Every six months (aftercare phase)	As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: • waterlogged • frozen • snow covered
	Carbon Dioxide	5 %v/v		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements (NEQ and SWA)				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
83301041 (G0504A), 83301042 (G0504B), 83301043 (G0504C), 83301051 (G0505A), 83301052 (G0505B), 83301053 (G0505C), 83301061 (G0506A), 83301062 (G0506B), 83301063 (G0506C), 83301071 (G0507A), 83301072 (G0507B), 83301073 (G0507C), 83301081 (G0508A), 83301082 (G0508B), 83301083 (G0508C), 83301091 (G0509A), 83301092 (G0509B), 83301093 (G0509C), 83301101 (G0510A), 83301102 (G0510B), 83301103 (G0510C), 83301111 (G0511A), 83301112 (G0511B), 83301113 (G0511C), 83301121 (G0512A), 83301122, (G0512B) and 83301123 (G0512C)				
South West Area (SWA)				
East Side: G02 - G02/46. G90 - G90/39 and G90/42. G95 - G95/34. G97 - G97/40, G97/41, G97/44 and G97/47.	Methane	no limit	Monthly (operating phase) Every six months (aftercare phase)	As per LFTGN03 (enter version number and issue date) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: • waterlogged • frozen • snow covered
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
West Side: G90 - G90/63, G90/64, G90/65, G90/66, G90/67, and G90/68.	Methane	1 %v/v		As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Carbon Dioxide	5 %v/v		

Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements (NEQ and SWA)				
Monitoring point Ref. /description	**Parameter**	**Limit (including units)**	**Monitoring frequency**	**Monitoring standard or method**
	Oxygen	no limit	Monthly (operating phase) Every six months (aftercare phase)	Record whether the ground is: • waterlogged • frozen • snow covered
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
South West Corner: G90 - G90/5, G90/6, G90/7, G90/8, G90/9, G90/10, G90/13, G90/14, G90/15, G90/16, G90/17 and G90/18. **South East Corner:** G01 - G01/35 and G01/36. G90 - G90/21 and G90/29. G91 - G91/19, G91/20 and G91/22 G95 - G95/23, G95/24. G95/25, G95/26, G95/27, G95/28, G95/30, G95/31, G95/32 and G95/33.	Methane	1 %v/v	Monthly (operating phase) Every six months (aftercare phase)	As per LFTGN03 (September 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: • waterlogged • frozen • snow covered
	Carbon Dioxide	1.5 %v/v		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		

Table S3.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements (NEQ)						
Emission point Ref. & Location	**Parameter**	**Source**	**Limit (including unit)**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**

Outlet to effluent treatment plant identified on Plan ref: 2/NEQ/03	-	Effluent treatment plant identified on Plan ref: 2/NEQ/03	-	-	-	-

Table S3.7 Particulate matter in ambient air - monitoring requirements (NEQ and SWA)					
Monitoring Point Ref. /Description	**Parameter**	**Limit**	**Reference Period**	**Monitoring Frequency**	**Monitoring Standard or Method**
20m downwind of asbestos disposal cell (NEQ)	Asbestos Fibres	Where total fibre concentration exceeds 0.01 fibres/ ml in any sample, that sample must be submitted for electron microscopy to confirm the concentration of asbestos fibres present	2 hours	Twice per year or every 5000 tonnes asbestos deposited, whichever is greater	While asbestos is being deposited Pumped sampling 1m above ground level Flow rate = 4 litres/ minute Minimum sample volume = 480 litres Filter pore size = 1.2µm Asbestos fibre limit of detection = 0.001 fibres/ ml
50m upwind of asbestos disposal cell (NEQ)	Asbestos Fibres		2 hours	During all downwind monitoring	
Site boundary downwind of asbestos disposal cell (NEQ)	Asbestos Fibres		2 hours	Minimum twice per year	

Table S3.7 Particulate matter in ambient air - monitoring requirements					
Monitoring point(s) determined in accordance with the improvement programme in The Particulate Monitoring and Action Plan, drawing 2/NEQ/03 and 2/SWA/03	Particulate matter	200 mg/m^2	Weekly average	Quarterly	In accordance with Agency Guidance 'M17 – Monitoring of Particulate Matter in ambient air around waste facilities), or any subsequent guidance
	Suspended particulates PM_{10}	Not to exceed 50 μg/m^3 more than 35 times per year	24 hour average		
Monitoring point(s) determined in accordance with the improvement programme in The Particulate Monitoring and Action Plan, drawing 2/SWA/03	Suspended particulates PM_{10}	Not to exceed 40 μg/m^3	Annual Average	Quarterly	In accordance with Agency Guidance 'M17 – Monitoring of Particulate Matter in ambient air around waste facilities), or any subsequent guidance

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

Table S3.9 Groundwater – other monitoring requirements (NEQ and SWA)			
Monitoring Point Ref./Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
Up gradient MEPP	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011, or such other subsequent guidance as may be agreed in writing with the Environment Agency
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	Annually	
	Hazardous substances	Annually for first six years of operation	

Down or cross gradient MEPP	Water level, electrical conductivity, chloride, ammoniacal nitrogen, pH	Quarterly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011, or such other subsequent guidance as may be agreed in writing with the Environment Agency After the initial 6 year monitoring period for hazardous substances, if the results of quarterly or annual monitoring suggest an increase in contamination, the operator shall also undertake a full leachate hazardous substances screen
	total alkalinity, magnesium, potassium, total sulphates, calcium, sodium, chromium, copper, iron, lead, nickel, zinc, manganese	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 S3.10 Landfill gas – other monitoring requirements (NEQ and SWA)

Monitoring Point Ref. /Description	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In waste gas monitoring boreholes or sealed leachate wells or sacrificial gas extraction system in cells for non-hazardous waste (NEQ)	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

Table S3.10 Landfill gas – other monitoring requirements (NEQ and SWA)				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
	Hydrogen sulphide	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 2010) or other such subsequent guidance as may be agreed in writing with the Environment Agency or a method agreed with the Environment Agency	For cells or phases which have no active gas extraction Once gas extraction has commenced in a particular cell or phase, there is no longer a requirement to carry out this monitoring Concentrations of hydrogen sulphide shall be assessed in accordance with the gas and odour management plans
One in waste borehole per cell and / or leachate wells for separate cells for stable non reactive hazardous waste and asbestos on landfills for non-hazardous waste (NEQ)	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure	Monthly		
	Hydrogen sulphide Hydrogen	Quarterly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 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 S3.10 Landfill gas – other monitoring requirements (NEQ and SWA)				
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 and asbestos for non-hazardous waste (NEQ)	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (v3 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 and strategic points on gas system (NEQ and SWA)	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 S3.10 Landfill gas – other monitoring requirements (NEQ and SWA)				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Gas collection system at well control valve (NEQ and SWA)	Hydrogen sulphide	Six monthly	Calibrated handheld monitoring instrument or Tedlar Bag sample in accordance with LFTGN04 (v3 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
Output to flare or LFG Utilisation Compound (NEQ and SWA)	Trace gas	Annually	Trace gas analysis in accordance with LFTGN04 (v3 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
Output to flare or LFG Utilisation Compound (NEQ and SWA)	Methane Carbon Dioxide Oxygen Gas flow rate Suction % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Weekly		Where the oxygen concentration exceeds 5% or the % balance gas is greater than 20% an assessment of air ingress into the system shall be undertaken

Table S3.10 Landfill gas – other monitoring requirements (NEQ and SWA)				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Flare A2 on Plan 2/SWA/03 Flare A4 and A5 on Plan 2/NEQ/03	Temperature	As per LFTGN05 (V2 March 2011) or such other subsequent guidance as may be agreed in writing with the Environment Agency	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency	
LFGE 1, 2 and 3 on Plan 2/SWA/03 LFGE 4, 5 and 6 on Plan 2/NEQ/03	NO_x and CO	Quarterly	In accordance with Appendix C of LFTGN08, version 2: 2010 or such other subsequent guidance as may be agreed in writing with the Environment Agency	Where monitoring using hand-held, electrochemical equipment indicates an exceedance of the emissions standards specified in Table S3.2, these shall be used as action levels and the operator shall investigate the cause and take appropriate measures to reduce emissions
Inlet and outlet of Carbon Tower (NEQ)	Hydrogen Sulphide	Weekly	-	-

Table S3.11 Leachate – other monitoring requirements (NEQ and SWA)				
Monitoring point reference or description	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Operational Cells or Phases (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.6)			At leachate compliance point as listed in table S3.1 As specified in Environment Agency Guidance TGN02 (February 2003) and Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, Dec 2011) with one sampling point per cell / phase or such other subsequent guidance as may be agreed in writing with the Environment Agency	
MEPP	pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese	Quarterly		None
MEPP	Hazardous substances	Annually		None
MEPP	Depth to base (mAOD)	Annually		None
Non Operational Cells or Phases (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.6)				
MEPP	pH, EC, total alkalinity, ammoniacal nitrogen, Chloride, COD, BOD, cadmium, chromium, copper, lead, nickel, iron, arsenic, magnesium, potassium, total sulphates, calcium, sodium, zinc, manganese	Annually		
MEPP	Hazardous substances	Once every four years		None
MEPP	Depth to base (mAOD)	Annually		

Table S3.12 Surface water – other monitoring requirements (NEQ and SWA)				
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 Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, (Annex J3, version 2.1, Dec 2011) or such other subsequent guidance as may be agreed in writing with the Environment Agency

Table S3.13 Ambient air – other monitoring requirements (NEQ and SWA)				
Monitoring Point Ref. /Description	**Parameter**	**Monitoring frequency [1]**	**Monitoring standard or method**	**Other specifications**
MEPP	Methane in ambient air	Monthly	Spot sample	no limit
Note 1: Monitoring shall only take place under calm conditions (<Beaufort force 2).				

Table S3.14: Other monitoring requirements – Contaminated soil (NEQ)				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Soil biopiles (ref. Variation Drawing A4 dated 27.03.07)	Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAHs) Pentachlorophenol (PCP) Note 1 Total Volatile Organic Compounds (VOCs) Phenols pH	Each completed batch of treated soil shall be sampled	To be agreed with the Environment Agency	Laboratory must be accredited to EN ISO/IEC ISO17025:2000 for the analysis specified Samples to be obtained using standard sampling procedures as per BS 812
Note 1: Only if PCP contaminated soils are received for treatment.				

Table S3.15 Process monitoring requirements					
Emission point reference or source or description of point of measurement	**Parameter**	**Limit**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Monitoring location labelled M as shown on Figure 6 – Diagram of air monitoring locations within the Asbestos Management Plan document	Asbestos Fibres	0.01 fibres/ml. Where total fibre concentration exceeds 0.01 fibres/ml in any sample, that sample must be submitted for electron microscopy to confirm the concentration of asbestos fibres present	Twice weekly on 2 separate days and continuous sampling over a 4 hour period	In line with M17 Guidance. Whilst soils are being unloaded and constructed into stockpiles, processed through the picking station, constructed into stockpiles • Pumped sampling • 1m above ground level • Flow rate = 4 litres/ minute • Minimum sample volume = 480 litres • Filter pore size = 0.8-1.2µm	-

Table S3.15 Process monitoring requirements					
Emission point reference or source or description of point of measurement	**Parameter**	**Limit**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
				Asbestos fibre limit of detection = 0.001 fibres/m	

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data (NEQ and SWA)		
Parameter	**Reporting period**	**Period ends**
Leachate As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to air As specified by schedule 3, table S3.2	Every 12 months	31 December
Point source emission to water (other than sewer) As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.5	Every 3 months	31 March, 30 June, 30 September, 31 December
Point source emission to sewer, effluent treatment plant, tankering or other off site transfer As specified by schedule 3, table S3.6	Every 3 months	31 March, 30 June, 30 September, 31 December
Particulate matter in ambient air. As required by schedule 3, table S3.7	Every 6 months	30 June, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.8	Every 12 months	31 December
Other groundwater monitoring As specified by schedule 3, table S3.9	Every 3 months	31 March, 30 June, 30 September, 31 December
Other Landfill gas monitoring As specified by schedule 3, table S3.10 Trace gas monitoring	Every 3 months Every 12 months	31 March, 30 June, 30 September, 31 December 31 December
Other leachate monitoring As specified by schedule 3, table S3.11	Every 12 months	31 December

Table S4.1 Reporting of monitoring data (NEQ and SWA)		
Parameter	**Reporting period**	**Period ends**
Other surface water monitoring As specified by schedule 3, table S3.12	Every 12 months	31 December
Meteorological data Landfill Directive, annex III, section 2	Every 12 months	31 December
Other ambient air monitoring As specified by Schedule 3, table S3.13	Every 3 months	31 March, 30 June, 30 September, 31 December
Other contaminated soil monitoring As specified by Schedule 3, table S3.14	Every 3 months	31 March, 30 June, 30 September, 31 December
Asbestos fibres As specified by Schedule 3, table S3.15	Every 3 months	31 March, 30 June, 30 September, 31 December

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

Table S4.2: Annual production/treatment (NEQ and SWA)	
Leachate: Disposed of off site; Disposed of to any onsite effluent treatment plant; Recirculated into the waste mass. Accepted from offsite for treatment at any onsite effluent treatment plant.	Cubic metres/year
Landfill gas: combustion in flares; combustion in gas engines; Other methods of gas utilisation. Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring) Methane generation rate (50%ile from a representative model)	Normalised cubic metres/year % methane v/v m3 /hr

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

Table S4.4 Reporting Forms (NEQ and SWA)		
Media/parameter	**Reporting Format**	**Date of Form**
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Air	Form Air 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Particulate matter and asbestos fibres	Form Particulate 1 or other reporting format to be agreed in writing with the Environment Agency	26/04/17
Waste Return	Waste Return Form RATS2E	26/04/17
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Environment Agency	26/04/17

Schedule 5 – Notification

This page outlines the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

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

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

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

(c) Notification requirements in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

“annually” means once every year.

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

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

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

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

(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 property” has the meaning in Annex lll of the Waste Framework Directive

“Hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in our Hydrogeological risk assessment guidance, annex J to our H1 risk assessment guidance.

‘Hazardous waste’ has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended)

“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.

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

“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.

"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

“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.

“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.

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

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

“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” - See ‘List of Wastes’.

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

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

Where the following terms appear in the waste code list in Tables S2.1, S2.3 they have the meaning given below:

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

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

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

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

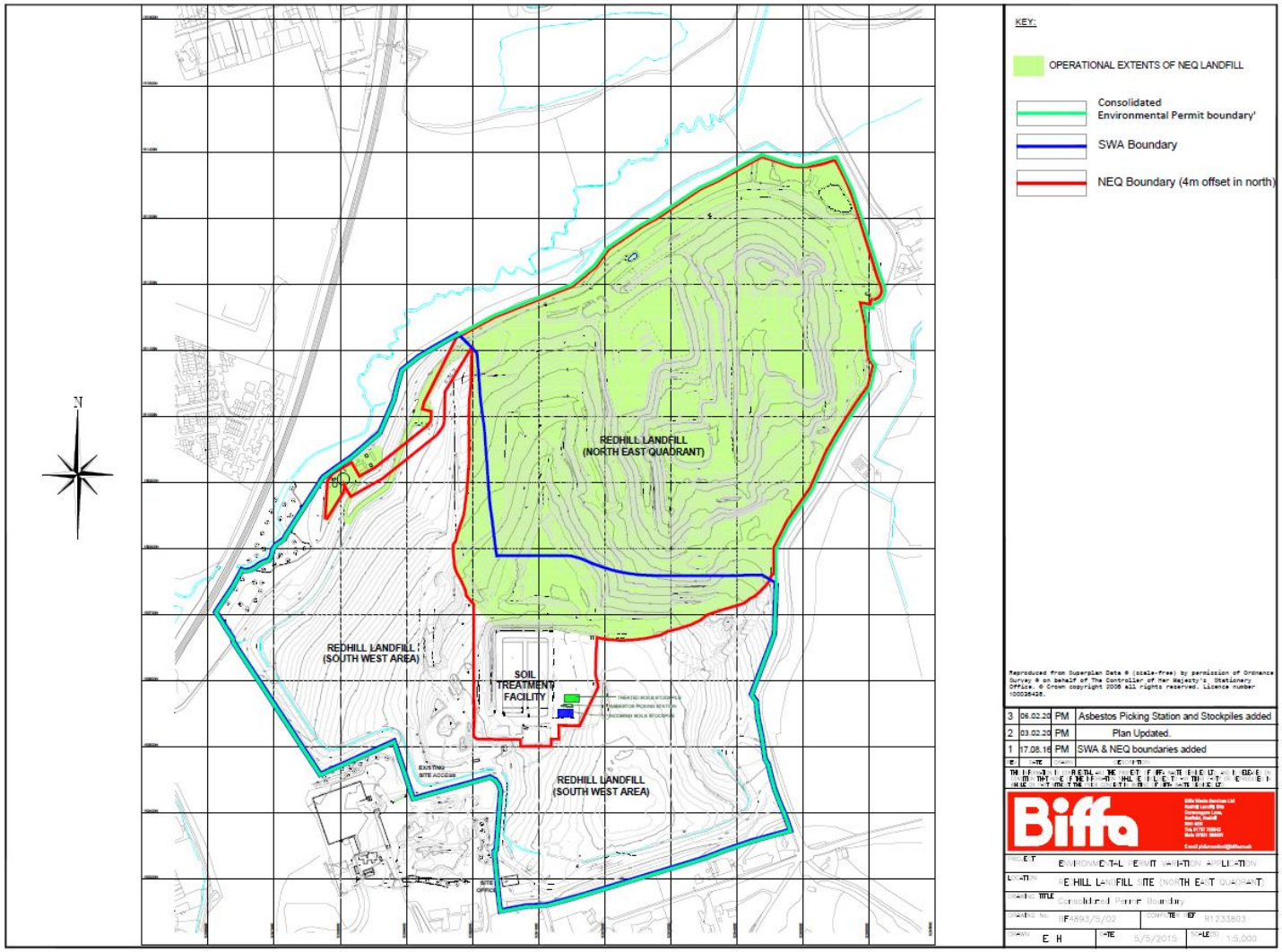
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

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

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

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

Schedule 7 – Site plan



END OF PERMIT

Permit Number: BU8126IY **Operator: Biffa Waste Services Limited**

Facility: Redhill Landfill Site **Form Number: Air1 / 26/04/2017**

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ……. Date……..

(Authorised to sign as representative of Operator)

Permit Number: **BU8126IY** **Operator:** **Biffa Waste Services Limited**

Facility: **Redhill Landfill Site** **Form Number:** **Water1 / 26/04/2017**

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: BU8126IY **Operator: Biffa Waste Services Limited**

Facility: Redhill Landfill Site **Form Number: Sewer1 / 26/04/2017**

Reporting of emissions to sewer for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

5. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: BU8126IY **Operator: Biffa Waste Services Limited**

Facility: Redhill Landfill Site **Form Number: Leachate 1 / 26/04/2017**

Reporting of leachate monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: BU8126IY **Operator: Biffa Waste Services Limited**

Facility: Redhill Landfill Site **Form Number: Groundwater1 / 26/04/2017**

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: **AB1234CD** **Operator:** **Biffa Waste Services Limited**

Facility: **Redhill Landfill Site** **Form Number:** **LFG1 / 26/04/2017**

Reporting of landfill gas monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number: BU8126IY **Operator: Biffa Waste Services Limited**

Facility: Redhill Landfill Site **Form Number: Particulate1 / 26/04/2017**

Reporting of particulates for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ……. Date……..

(Authorised