

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2010**

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Biffa Waste Services Limited

Newstead Landfill Site  
Alderflat Drive  
Newstead Industrial Estate  
Trentham  
Stoke on Trent  
Staffordshire  
ST4 8HX

**Variation application number**

EPR/TP3596FC/V010

**Permit number**

EPR/TP3596FC

# Newstead Landfill Site

## Permit number EPR/TP3596FC

### Introductory note

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

This is a pre-Landfill Directive closed non-hazardous landfill site, in aftercare. The following gives notice of the variation and consolidation of this environmental permit.

1. Removal of leachate head compliance limits;
2. Amendment of leachate level monitoring frequency in line with a revised Hydrogeological Risk Assessment (HRA);
3. Amendment of surface water sampling in line with HRA;
4. Amendment of groundwater level and sampling frequency in line with HRA; and
5. Revised Trigger Level and Action Level review for CH4 and CO2 in line with ICOP review

In addition, the permit has been updated to remove historical treatment and transfer activities which are redundant on this permit and have been superseded by a different permit.

Status log of the permit		
Description	Date	Comments
Waste Disposal Licence issued by Staffordshire County Council	14/07/86	Disposal licence under control of Pollution Act 1974
Waste Management Licence	01/05/94	Fell to be treated as a waste management licence
Modification	28/09/94	
Modification	13/12/94	
Modification	20/04/95	
Modification	29/03/96	
	01/04/96	Powers duties of all waste regulation authorities in England and Wales transferred to the Environment Agency by virtue of section 2 of the Environment Act 1995
Modification	31/03/97	
Modification	26/02/99	
Application EPR/TP3596FC/V010 (variation and consolidation)	Duly made 17/11/17	Application to vary and update the permit to modern conditions.
Additional information (schedule 5 dated 14/09/18)	15/11/18	Revised Hydrogeological Risk Assessment
Additional information received	15/11/18	Monitoring Plan
Variation determined EPR/TP3596FC/V010	12/06/19	Varied and consolidated permit issued in modern condition format.

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2010

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

### Permit number

**EPR/TP3596FC**

### 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

**Newstead Landfill Site**

**Alderflat Drive**

**Newstead Industrial Estate**

**Trentham**

**Stoke on Trent**

**Staffordshire**

**ST4 8HX**

to the extent set out in the schedules.

The notice shall take effect from 12/06/2019

<b>Name</b>	<b>Date</b>
<b>Samantha Haddock</b>	<b>12/06/2019</b>

Authorised on behalf of the Environment Agency

## **Schedule 1 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2010

### Permit number

**EPR/TP3596FC**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3596FC/V010 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 waste operations at

**Newstead Landfill Site**

**Alderflat Drive**

**Newstead Industrial Estate**

**Trentham**

**Stoke on Trent**

**Staffordshire**

**ST4 8HX**

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

Name	Date
Samantha Haddock	12/06/2019

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

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

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

- 1.2.1 The operator shall:
- (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 S1.2, unless otherwise agreed in writing by the Environment Agency.

- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **2.4 Improvement programme**

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

## **2.5 Landfill Engineering**

- 2.5.1 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Environment Agency has confirmed that it is satisfied with the construction proposals.
- 2.5.2 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
  - (b) a change has otherwise been agreed in writing by the Environment Agency.
- 2.5.3 The operator shall submit a CQA Validation Report within 4 weeks of the completion of the landfill infrastructure.
- 2.5.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.2 and 2.5.3 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to the Environment Agency as soon as practicable.
- 2.5.5 For the purposes of conditions 2.5.1 and 2.5.2, the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
- (a) confirmed whether or not it is satisfied; or
  - (b) informed the operator that it requires further information.
- 2.5.6 Where the Environment Agency has required further information under condition 2.5.5(b), the Environment Agency shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- (a) confirmed whether or not it is satisfied; or
  - (b) informed the operator that it requires further information.

## **2.6 Waste acceptance**

- 2.6.1 No waste shall be accepted for disposal within the facility.

## **2.7 Leachate levels**

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

## **2.8 Closure and aftercare**

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

## **2.9 Landfill gas management**

2.9.1 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.

2.9.2 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.

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

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

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

### **3.2 Emissions of substances not controlled by emission limits**

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

### **3.3 Odour**

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

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

### **3.4 Noise and vibration**

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

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

### **3.5 Monitoring**

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

- (a) Leachate specified in tables S3.1;
- (b) Groundwater specified in tables S3.2 and S3.3;
- (c) Landfill gas specified in table S3.4;
- (d) Surface water specified in table S3.5

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 and following the restoration of any area 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) leachate levels, and quality;
    - (iii) landfill gas generation and collection;
    - (iv) landfill gas monitoring;
    - (v) waste types and quantities;
    - (vi) 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. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this activity and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
  - (b) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
  - (c) 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;
  - (d) a plan(s) ('the monitoring point plan – MPP') showing the locations of 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) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2 or other reporting format as agreed in writing with the Environment Agency; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall annually submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the waste accepted and removed from the site and confirming compliance with a relevant competency scheme.
- 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 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	
Description of specified activity and WFD Annex I and II operations	Limits of activities
D1: Deposit into or on to land	The management of inert wastes deposited into or onto land.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Schedule 5 Response (Dated 14/09/18)	Removal of leachate head compliance limits: <ul style="list-style-type: none"> <li>• Sirius Environmental Ltd, Hydrogeological Risk Assessment, Report No BF4927/HRA (rev2), November 2018; and</li> <li>• Sirius Environmental Ltd, Letter Report: Newstead Landfill Site Hydrogeological Risk Assessment, Responses to EA Comments of 15th March 2019, 22 March 2019.</li> </ul>	15/11/18
Schedule 5 Response (Dated 14/09/18)	Amendment of leachate level monitoring frequency in line with HRA: <ul style="list-style-type: none"> <li>• Sirius Environmental Ltd, Hydrogeological Risk Assessment, Report No BF4927/HRA (rev2), November 2018</li> </ul>	15/11/18
Schedule 5 Response (Dated 14/09/18)	Amendment of surface water sampling in line with HRA: <ul style="list-style-type: none"> <li>• Sirius Environmental Ltd, Hydrogeological Risk Assessment, Report No BF4927/HRA (rev2), November 2018</li> </ul>	15/11/18

Table S1.2 Operating techniques		
Description	Parts	Date Received
Schedule 5 Response (Dated 14/09/18)	<p>Amendment of groundwater level and sampling frequency in line with HRA;</p> <ul style="list-style-type: none"> <li>• Response to Schedule 5 Notice dated 14th September 2018; and</li> <li>• Sirius Environmental Ltd, Hydrogeological Risk Assessment, Report No BF4927/HRA (rev2), November 2018</li> </ul>	<p>14/09/18</p> <p>15/11/18</p>
Application supporting information	<p>Revised Trigger Level and Action Level review for CH4 and CO2 in line with ICOP review and details on gas management plan:</p> <ul style="list-style-type: none"> <li>- <i>Biffa Waste Services Ltd, ICOP Main Report (excel version)</i></li> </ul>	01/09/17
Additional information	<p>Inclusion of BH2R in the monitoring schedule was agreed in the</p> <ul style="list-style-type: none"> <li>- <i>Sirius Environmental Ltd, Letter Report: Newstead Landfill Site Hydrogeological Risk Assessment, Responses to EA Comments of 15<sup>th</sup> March 2019, 22 March 2019.</i></li> </ul>	15/03/19 & 22/03/19
Additional information	Monitoring Plan (Rev 5; 15.04.2019)	15/04/19

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IC1	<p>The operator shall statistically derive and propose control and compliance levels for groundwater monitoring well BH2 (Redrill) 88101102 [see Figure 2 - Monitoring Plan in Schedule 7] for parameters specified in table S3.2 of the permit to the Environment Agency in writing for approval.</p> <p>The control and compliance levels shall be derived from a minimum of 12 rounds of monitoring data over 72 months (based on the agreed six-monthly groundwater quality monitoring frequency) in accordance with <a href="https://www.gov.uk/guidance/landfill-developments-groundwater-risk-assessment-for-leachate">https://www.gov.uk/guidance/landfill-developments-groundwater-risk-assessment-for-leachate</a></p> <p>The operator shall update the Monitoring Management Plan to include the agreed compliance and control limits.</p>	To be agreed in writing with the Environment Agency
IC2	The operator shall submit to the Environment Agency in writing for approval a revised closure report for the site.	To be agreed in writing with the Environment Agency

## Schedule 2 – List of permitted waste

<b>Table S2.1 List of previously authorised waste types</b>
<b>Description</b>
Inert demolition
Excavation and construction waste consisting only of uncontaminated natural excavated soils and subsoils
Uncontaminated rubble/hardcore
Stone
Clay
Sand (except foundry sand)
Brickwork
Concrete
Weathered ta/bitumen aggregate
Contaminated excavation and demolition waste include contaminated soils
Sewage cake
Road sweepings and gully emptyings

## Schedule 3 – Emissions and monitoring

<b>Table S3.1 Leachate level limits and monitoring requirements</b>				
<b>Monitoring point reference/Description</b>	<b>Parameter</b>	<b>Limit</b>	<b>Monitoring frequency</b>	<b>Monitoring standard and method</b>
L1 (88103101), L3 (88103103) & L4 (88103104)  On Figure 2 - Monitoring Plan in Schedule 7	Leachate Level	N/A	6-monthly	As specified in Environment Agency Guidance LFTGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.
L1 (88103101), L3 (88103103) & L4 (88103104)  On Figure 2 - Monitoring Plan in Schedule 7	Ammoniacal Nitrogen, Arsenic, BOD, COD, Suspended Solids, Chloride, pH, Sulphate, Electrical Conductivity, Lead, Cadmium, Copper, Zinc, Nickel, Chromium, Mercury, Phenols, Cyanide, Sulphide	N/A	6-monthly	

<b>Table S3.2 Interim Groundwater Compliance Levels</b>					
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Control Level</b>	<b>Compliance Level</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH1 (Redrill) (88101101)  On Figure 2 - Monitoring Plan in Schedule 7	Ammoniacal Nitrogen	4.9 mgN/l	5.3 mgN/l	6-monthly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u><a href="#">risk assessments for your environmental permit (www.gov.uk)</a></u> , or such other subsequent guidance as may be agreed in writing with the Environment Agency.
	Cadmium	-	0.0006 mg/l		
	Chloride	81 mg/l	87.58 mg/l		
	Sulphate	238 mg/l	288 mg/l		

<b>Table S3.3 Groundwater – emission limits and monitoring requirements</b>				
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH2 (88101102), BH04 (88101004), BH07 (88101007), BH09 (88101009), BH1 (88101101), BH12 (88101112), BH14 (88101114) & BH17 (88101117)  On Figure 2 - Monitoring Plan in Schedule 7	Level	-	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u>risk assessments for your environmental permit (www.gov.uk)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency

<b>Table S3.3 Groundwater – emission limits and monitoring requirements</b>				
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH2 (88101102), BH07 (88101007), BH09 (88101009), BH1 (88101101), BH12 (88101112), BH14 (88101114) & BH17 (88101117)  On Figure 2 - Monitoring Plan in Schedule 7	pH, Electrical Conductivity, Ammoniacal Nitrogen, Cadmium, TOC, Sulphate Arsenic, Chloride, Chromium, Copper, Lead, Nickel, Zinc, Mercury, Nitrate, Alkalinity, Sodium, Potassium, Calcium, Magnesium, Phenols, Cyanide, Sulphate, TPH	-	6-monthly	

**Table S3.4 Landfill gas in external monitoring boreholes – limits and monitoring requirements**

<b>Monitoring point Ref. /description</b> See Figure 2 - Monitoring Plan in Schedule 7	<b>Parameter</b>	<b>Action Level</b>	<b>Compliance Limit</b>	<b>Tmax</b>	<b>CH4 Action Level</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
88101101 (BH1)	Methane (CH4)	19.3	N/A	19.3	19.8	Monthly	As per LFTGN03 or such other subsequent guidance as may be agreed in writing with the Environment Agency.  Record whether the ground is: Waterlogged frozen snow covered
88101102 (BH2)		1	N/A	N/A	1		
88101003 (BH03)		1	N/A	0	1		
88101004 (BH04)		1	N/A	0	1		
88101005 (BH05)		1	N/A	N/A	1		
88101006 (BH06)		1	N/A	0	1		
88101007 (BH07)		3.3	N/A	3.3	3.8		
88101008 (BH08)		1	N/A	0	1		
88101009 (BH09)		1	N/A	0.1	1		
88101010 (BH10)		1	N/A	0	1		
88101011 (BH11)		1	N/A	N/A	1		
88101112 (BH12)		6.6	N/A	6.1	6.6		
88101013 (BH13)		1	N/A	0.1	1		
88101114 (BH14)		1	N/A	0	1		
88101015 (BH15)		1	N/A	0	1		
88101016 (BH16)		1	N/A	0.1	1		
88101117 (BH17)		6.3	N/A	6.3	6.8		
88101018 (BH18)		2	N/A	2	2.5		

<b>Table S3.5 Surface Water Monitoring Schedule</b>				
<b>Monitoring Point Ref. /Description</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
88102000 (SW Pond) & 88102001 (SW Water course) (if <b>flow observed</b> )  On Figure 2 - Monitoring Plan in Schedule 7	pH, BOD, Ammoniacal Nitrogen, Cadmium, Nickel, Sulphate	Quarterly	Spot sample	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <u><a href="http://www.gov.uk">risk assessments for your environmental permit (www.gov.uk)</a></u> , or such other subsequent guidance as may be agreed in writing with the Environment Agency

## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>		
<b>Parameter</b>	<b>Reporting period</b>	<b>Period ends</b>
Leachate levels and monitoring As specified by schedule 3, table S3.1	6-monthly	30 June, 30 September
Interim groundwater compliance levels As specified by schedule 3, table S3.2	6-monthly	30 June, 30 September
Groundwater monitoring As specified by schedule 3, table S3.3	6-monthly	30 June, 30 September
Landfill gas in monitoring boreholes As specified by schedule 3, table S3.4	Monthly	Monthly
Other surface water monitoring As specified by schedule 3, table S3.5	Quarterly	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.

<b>Table S4.2 Reporting Forms</b>		
<b>Media/parameter</b>	<b>Reporting Format</b>	<b>Date of Form</b>
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY
Controlled water	Form Water 1 or other reporting format to be agreed in writing with the Environment Agency	DD/MM/YY

# 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	

<b>(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

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

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(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</b>	
<b>To be notified within 24 hours of detection</b>	
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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

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

“annually” means once every year.

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

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

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

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

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

“CQA Validation Report” means the final “as built” construction and engineering details of the 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 Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

“emissions to land” includes emissions to groundwater.

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

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

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

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

“Landfill Infrastructure” means any specified element of the:

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

“List of Wastes” means the list of wastes established by Commission Decision 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.

“Liquids” means any liquid other than leachate.

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

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

“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.

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

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

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

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

“Relevant waste acceptance 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).

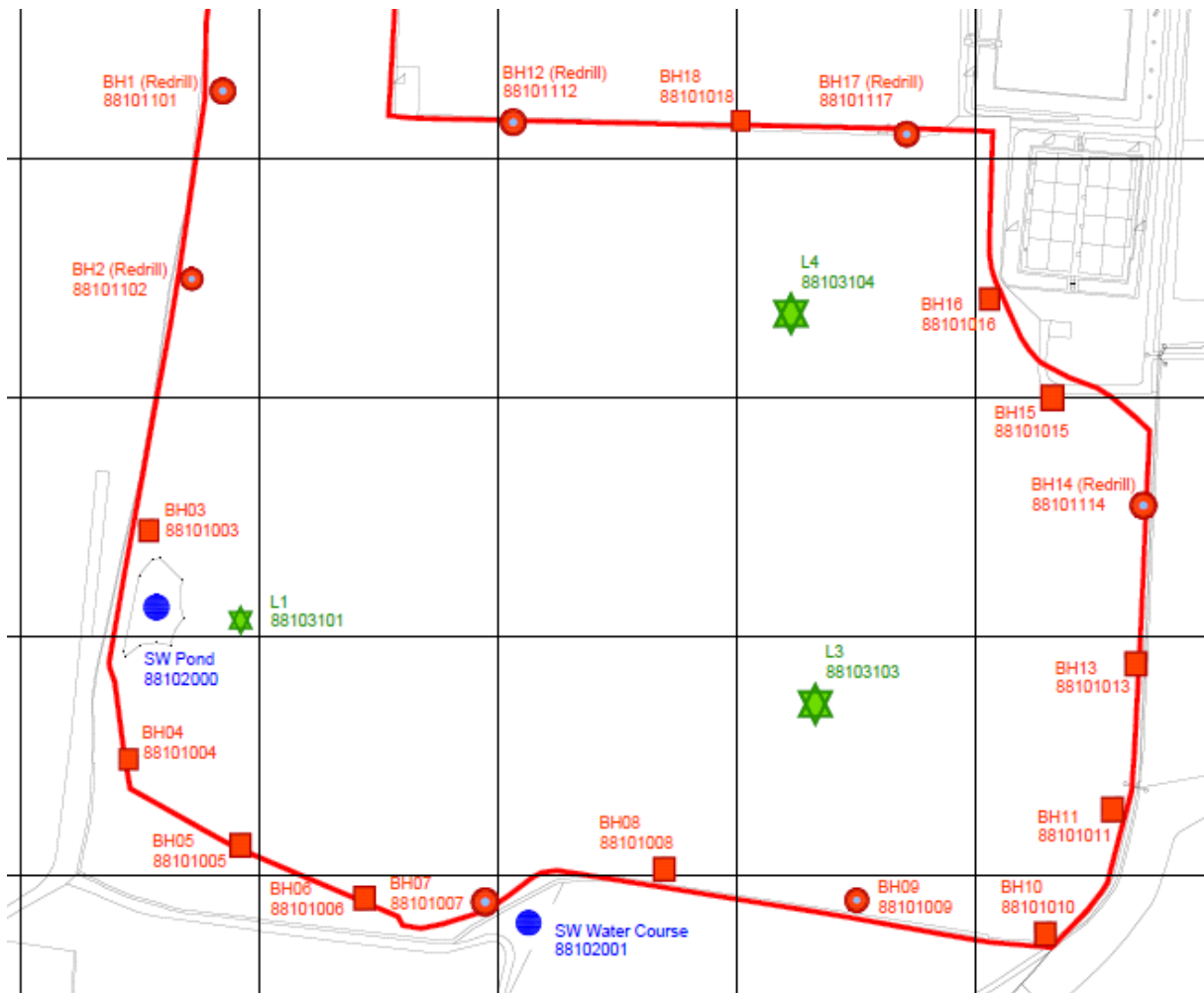
“Review of the Hydrogeological Risk Assessment” means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the EP Regulations. The review shall assess whether the activities of disposal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

‘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.



Figure 2 - Monitoring Plan



END OF PERMIT