

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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JLA Disposal Limited

Palleg Landfill Phase II  
Palleg Road  
Lower Cwmtwrch  
Swansea  
SA9 2QQ

Variation application number  
EPR/BT1908IX/V004

Permit number  
EPR/BT1908IX

# Palleg Landfill Phase II

## Permit number EPR/BT1908IX

### Introductory note

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

The following notice gives notice of the variation of an environmental permit.

The variation is Agency initiated to (i) update permit conditions due to legislative changes (ii) amend errors in monitoring tables and (iii) update the operating techniques following approval of improvement conditions.

The schedules specify the changes made to the original permit.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BT1908IX	Received 05/10/04	
Request to extend determination	Requests dated 18/05/05 and 06/07/05	Responses dated 31/05/05 and 08/07/05
Permit determined	26/07/05	Permit determined
Variation notice XP3230MQ issued	27/02/2007	Variation notice XP3230MQ issued
Variation DP3039XM Determined	28/12/2007	Variation notice DP3039XM issued
Application EPR/BT1908IX/V004	Application received 31/12/12	Agency initiated variation to vary permit conditions in line with legislative changes and response to improvement conditions.
Variation determined EPR/BT1908IX/V004	21/02/13	Varied permit issued.

End of introductory note

## Notice of variation

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

**Permit number**  
**EPR/BT1908IX**

**issued to:**  
**JLA Disposal Limited** (“the operator”)

whose registered office is

**Glyncynwal Uchaf Farm**  
**Palleg Road**  
**Lower Cwmtwrch**  
**Swansea**  
**SA9 2QQ**

company registration number **04582281**

to operate a regulated facility at

**Palleg Landfill Phase II**  
**Palleg Road**  
**Lower Cwmtwrch**  
**Swansea**  
**SA9 2QQ**

to the extent set out in the schedules.

The notice shall take effect from 21/02/2013

Name	Date
<b>Eirian Macdonald</b>	<b>21/02/2013</b>

Authorised on behalf of the Environment Agency

## Schedule 1 – conditions to be deleted

None

## Schedule 2 – conditions to be amended

The following conditions are amended as detailed, following an Environment Agency initiated variation

- 2.7.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing 1141r1vd0812 (revision 0) “Pre-settlement surface”.
- 3.2.4 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
  - (b) between nine and six months prior to every subsequent six years after the sixth anniversary of the granting of the permit.

The following tables in Schedule 1 (Operations) of the permit are amended as follows:

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the application form	05 October 2004
Site Protection and Monitoring Programme	Site Protection and Monitoring Plan (Document Reference 560.1/0/1207)	December 2007
Revised cell design	Geotechnology report: <i>Technical Report on Proposed Revisions to Containment Design</i> . Report Number: 560.1/1/0407	May 2007
Hydrogeological Risk Assessment 4 year review	Geotechnology report: <i>Four yearly report of the hydrogeological risk assessment</i> . Report reference: 788r1v1d0109 and;	4 <sup>th</sup> February 2009
	Geotechnology Letter dated 15 <sup>th</sup> September 2009	Sept 2009
Stability Risk Assessment review	Geotechnology report: <i>SRA review</i> . Report reference: 1141r2v1d1211.	December 2011
Surface Water Management Plan (including capping phasing plan)	Geotechnology report: <i>Surface Water Management Plan</i> . Report reference: 1141r3v1d1211 (excluding section 6.3 of the report).	December 2011
Carbon Dioxide Assessment Levels	Section 9.4.1 of Geotechnology Report: <i>Review of 2011 Landfill Monitoring</i> , Report reference: 1071r1v1d0212	February 2012

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
1	<p>The operator shall update the site Surface Water Management Plan and Monitoring Plan to reflect recent changes to the assessment (control) levels for:</p> <ul style="list-style-type: none"> <li>• Surface Water Monitoring;</li> <li>• Perimeter Landfill Gas Monitoring;</li> <li>• Groundwater monitoring; and</li> <li>• Leachate Quality</li> </ul> <p>The revised plans shall also include:</p> <ul style="list-style-type: none"> <li>• proposed assessment (control) levels for the new surface water emission point (S5);</li> <li>• an updated contingency action plan for all monitoring parameters, and;</li> <li>• updated monitoring point location plan showing all monitoring point locations</li> </ul>	31 <sup>st</sup> May 2013
2	A surface water management treatment system shall be constructed at the facility by the specified date and in accordance with the CQA requirements of condition 2.7 of the permit.	Prior to the first stage of capping at the facility <b>or</b> by the 31 <sup>st</sup> August 2013, whichever being first.
3	The first stage of reprofiling and capping (as shown on Figure 5c, drawing reference: 1141r3v1d1211) shall be completed.	31 <sup>st</sup> December 2013.
4	Signs identifying the surface monitoring point locations shall be installed that clearly identify the name and location of each surface water monitoring point.	31 <sup>st</sup> March 2013

**Table S1.4 Pre-operational measures**

Pre-operational Measures	
1	<p>Prior to the installation of a leachate treatment plant the operator shall establish and maintain arrangements for storage, treatment and disposal of leachate as detailed in document references:</p> <ul style="list-style-type: none"> <li>• leachate Treatment Plant Proposed Concept and Outline Specification, October 2005;</li> <li>• leachate Treatment Plant, Technical Specification, 25/5/06 and;</li> <li>• correspondence and attachments from Andrea Powell entitled Improvement Programme - Leachate Treatment System, dated 10/8/06.</li> </ul> <p>The operator shall also address any outstanding matters as detailed in Agency correspondence dated 3<sup>rd</sup> and 25<sup>th</sup> July 2006 and submit for approval to the Environment Agency.</p> <p>NOTE: There shall be no discharge from any future leachate treatment plant serving this installation, until the applicant has successfully applied for a permit variation to allow a discharge from any future leachate treatment plant.</p>

The following tables in Schedule 4 (emissions and monitoring) of the permit are amended as follows:

**Table S4.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements**

Emission point reference & location	Parameter	Source	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
S5 as shown on Figure 7 (drawing reference: 1141r3v1D1211)	Suspended Solids	Surface water emission point from the installation	50mg/l	Spot Sample	Monthly	Unless otherwise agreed in writing with the Agency monitoring methods used shall be in accordance with Agency guidance document 'guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)'
	pH	Surface water drainage from the installation	5.5 to 9.5	Spot Sample	Monthly	
	COD	Surface water drainage from the installation	600 mg/l	Spot Sample	Monthly	
	Ammoniacal Nitrogen	Surface water drainage from the installation	0.75mg/l	Spot Sample	Monthly	
	Chloride	Surface water drainage from the installation	200mg/l	Spot Sample	Monthly	
	Visible oil or grease	Surface water drainage from the installation	No visible	Visual assessment	Monthly	

**Table S4.4 Trigger levels for emissions into groundwater and monitoring requirements**

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GW2 to GW5, GW8 as shown on drawing reference: 1071r1vd0212.	Ammoniacal Nitrogen	2.5mg/l	Spot Sample	quarterly	Unless otherwise agreed in writing with the agency monitoring methods used shall be in accordance with Agency guidance document 'guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)'
	Chloride	200 mg/l	Spot Sample	quarterly	
	Zinc	0.1mg/l	Spot Sample	quarterly	
	Cadmium	0.005mg/l	Spot Sample	Six-monthly	
	Mercury	0.001mg/l	Spot Sample	Six-monthly	
	Mecoprop	0.0004mg/l	Spot Sample	Six-monthly	
	Phenols	0.01079mg/l	Spot Sample	Six-monthly	
	Toluene	0.004mg/l	Spot Sample	Six-monthly	

**Landfill gas in external monitoring boreholes – emission limits and monitoring requirements**

Monitoring point reference /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Peripheral landfill gas monitoring boreholes GA7 to GA10	Methane	1.0% Vol in air	Monthly	Environment Agency Guidance LFGTN03
	Carbon Dioxide	No Limit *		
	Oxygen	No Limit		
	Atmospheric pressure			
	Differential Pressure			
	Meteorological data			

\*Revised assessment levels for Methane and Carbon Dioxide have been approved (2011 Annual Monitoring Report – reference: 1071r1v1d0212) and now form part of the site's operating techniques.

**Table S4.9 Surface water – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
S1,S2,S3, S4, S5, S6, S7 as shown on Figure 7 (drawing reference: 1141r3v1D1211)	Temp, pH, Electrical Conductivity, Dissolved Oxygen, Total Suspended Solids, Ammoniacal Nitrogen, Biochemical Oxygen Demand, Chemical Oxygen demand Chloride.	Monthly	Unless otherwise agreed in writing with the agency monitoring methods used shall be in accordance with Agency guidance document 'guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)'	Surface Water Control Levels (including contingency action plans) for S1 to S4, S6 & S7 are documented in section 8 of the original permit application.
	Total Oxidised Nitrogen, Total Organic carbon, Arsenic, Boron, Cadmium, Chromium, Copper, Iron, lead, Manganese, Nickel, Zinc, Calcium, Magnesium, Sodium, Potassium, Sulphate, Total alkalinity,	Quarterly		



**Table S4.10 Groundwater – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
GW2 to GW5, GW8 as shown on drawing reference: 1071r1vd0212.	Water level , pH, Temperature, Electrical Conductivity, Ammoniacal Nitrogen, Chloride, Zinc	Quarterly	Unless otherwise agreed in writing with the agency monitoring methods used shall be in accordance with	Groundwater control levels and contingency action plans are specified in the site's management system as defined by table S1.2.
	Total Oxidised Nitrogen, Total Organic carbon, Biochemical Oxygen Demand, Chemical Oxygen demand, Arsenic, Boron, Chromium, Copper, Iron, Lead, Manganese, Nickel, Calcium, Magnesium, Sodium, Potassium, Sulphate, Total alkalinity, Phenols, Mecoprop, Toluene, Mercury, Cadmium.	6 Monthly	Agency guidance document 'guidance on monitoring of landfill leachate, groundwater and surface water (LFTGN02)'	
	List I suite	Annual		

The following table in Schedule 5 (Reporting) of the permit is amended as follows:

**Table S5.1 Reporting of monitoring data**

<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Leachate levels As required by condition 3.6.1	L2 to L6 as shown on drawing no 249 figure 22	Quarterly	26/0705
Emissions to air Parameters as required by condition 3.6.1	GA1 To GA6 in waste monitoring points, Flare	Quarterly	26/0705
Emissions to water Parameters as required by condition 3.6.1	S5	Quarterly	26/0705
Groundwater Parameters as required by condition 3.6.1	Downstream Monitoring Points GW2 GW4 and GW7 as shown on figure 22 Monitoring plan Ammoniacal Nitrogen only Chloride Zinc Cadmium Mercury Mecoprop Phenols Toluene	Quarterly Quarterly Quarterly Six-monthly Six-monthly Six-monthly Six-monthly Six-monthly	26/0705
Landfill gas surface emissions Parameters as required by condition 3.6.1	Monitoring points specified in Table S4.6	Annually	26/0705
Other Landfill gas monitoring Parameters as required by condition 3.6.1	Monitoring points specified in Table S4.8	Quarterly	01/01/13
Other surface water monitoring Parameters as required by condition 3.6.1	Monitoring points specified in Table S4.9	Quarterly	01/01/13
Other groundwater monitoring Parameters as required by condition 3.6.1	Monitoring points specified in Table S4.10	As shown in Table S4.10	01/01/13
Other leachate monitoring Parameters as required by condition 3.6.1	Monitoring points specified in Table S4.7	Six-monthly	26/0705
List 1 Screen			

### Schedule 3 – conditions to be added

None