

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

C.F. Harris Limited

Copley Lane Landfill
St. John's Lane
Sherburn in Elmet
Leeds
LS25 6BJ

Variation application number
EPR/TP3830BD/V002

Permit number
EPR/TP3830BD

Copley Lane Landfill

Permit number EPR/TP3830BD

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 main features of the installation are described in the original permit EPR/TP3830BD. This variation extends the existing landfill boundary by adding two new cells (6&7) at the southern area of the landfill site. Two new leachate monitoring and three additional perimeter gas monitoring boreholes are incorporated into the permit. The company's registered office address is changed to reflect the current registered address.

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.

Status log of the permit

Description	Date	Comments
Application received	Duly made 01/11/04	
Additional information received	06/06/05 14/06/05 17/06/05 22/07/05 20/09/05 07/11/05	
Request to extend determination	12/01/06	
Permit determined TP3830BD	22/05/06	Original permit issued to C.F. Harris Limited.
Application EPR/TP3830BD/V002	Duly made 05/11/13	Application to vary the permit to add two new cells.
Response to Schedule 5 Notice Received	13/02/14	Further information regarding Hydrogeological Risk Assessment, Gas Risk Assessment and odour management.
Response to Schedule 5 Notice Received	17/03/14 01/04/14	Submission of leachate odour management plan. Submission of leachate recirculation methodology. Revision to leachate odour management plan.
Variation determined EPR/TP3830BD (Billing ref. BP3533EU)	25/09/14	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/TP3830BD

issued to:
C.F. Harris Limited (“the operator”)

whose registered office is
St Bernard’s Mill Gelderd Road
Gildersome
Leeds
West Yorkshire
LS27 7NA

company registration number 00290568

to operate a regulated facility at
Copley Lane Landfill
St. John’s Lane
Leeds
LS25 6BJ

to the extent set out in the schedules.

The notice shall take effect from 25/09/2014.

Name	Date
Thomas Ruffell	25/09/2014

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 a result of the application made by the operator

- 1.3.1 The financial provision for meeting the obligations under this permit set out in the Agreement entered into between the Operator and the Agency dated 22-5-2006 and any variation to it provided in accordance with condition 1.3.3 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.
- 2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 4 to this Notice.
- 2.3.1 (a) 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.
(b) 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.
- 2.8.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing 12182/564 Rev. A dated 20/05/13.

Table S1.2 Operating Techniques as referenced in condition 2.3.1.

Table S1.2 Operating Techniques		
Description	Parts	Date Received
Application	The response to questions, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10 and 2.11 in part B of the Application Form. Excluding the responses to the following questions: 2.1.8, 2.2.9, 2.2.17, 2.2.42, 2.2.65, 2.2.67, 2.2.68 and 2.2.79 .	01/11/04
Regulatory Specification document Version 1.1 received from Silkstone Environmental Ltd in response to Agency request for information dated 18/05/05.	The response to issues 12, 13, 23, 27, 36, 37, 41 and 60. Excluding the responses to issues 5, 6, 7 (regarding odour and dust management), 31, 34, 39, 40, 57- location of proposed groundwater monitoring points BH10, BH11 and BH12 as shown on drawing CL-IPPC-14 and 59 - capping specification shown on drawing REGSPEC 3.	22/07/05
Letter received from Silkstone Environmental Ltd in response to Agency Schedule 4 dated 31/08/05.	The response to issues 1 to 6, 8 to 15 and 17 to 24. Excluding the responses to issue 7 (regarding the groundwater management system) and 16 (regarding stability analyses).	20/09/05
Document received from Silkstone Environmental Ltd in response to Agency Schedule 4 dated 25/10/05.	The response to issues 1, 3 and 4 Excluding the responses to issue 2 (leachate storage arrangements).	07/11/05
Variation application EPR/TP3830BD/V002	Environmental Monitoring Plan Ref. EMP-COP-01, June 2013 of the Application in response to section 3a – technical standards, Part C3 of the application form	05/11/13
Additional information received	Responses to questions 2, 3, 10, 14, 15 and 17 of 'Not Duly Made Letter' dated 16/09/13 including Drawing 12182-566 Rev B dated 03/10/13 and Drawing 12182-552 Rev A dated 03/10/13.	11/10/13
Response to Schedule 5 Notice dated 12/12/2013.	All parts excluding the responses to questions 6, 10 and 12 and the Document 'Leachate Recirculation Odour Management - 130214'.	13/02/14
Response to Schedule 5 Notice dated 11/03/2014.	Document 'Leachate recirculation system and odour management – 010414'. Drawing '12182-560 Monitoring Points Rev B' dated March 2014	01/04/14

Table S4.1 Leachate level limits and monitoring requirements as referenced in condition 2.9.1.

Table S4.1 Leachate level limits and monitoring requirements			
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
LE 1, LE 2, LE 3, LMP1, LMP2, LMP3, LMP4 as shown on Drawing 12182/560 Rev B dated March 2014	1 m above the base of the cell.	Daily	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'

Table S4.3 Trigger levels for emissions into groundwater and monitoring as referenced in condition 3.2.3.

Table S4.3 Trigger levels for emissions into groundwater and monitoring					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
BH1A, BH2A, BH3, BH4, BH11B, BH12A, BH12B as shown on Drawing 12182/560 Rev B dated March 2014	Chloride	250 mg/l	Spot Sample	Quarterly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
	Nickel	116 µg/l			
	Ammoniacal Nitrogen	4 mg/l			
	Benzene	1 µg/l			
	Mercury	0.167 µg/l			
	Cadmium	0.293 µg/l			
BH11A as shown on Drawing 12182/560 Rev B dated March 2014	Chloride	250 mg/l	Spot Sample	Quarterly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
	Nickel	500 µg/l			
	Ammoniacal Nitrogen	4 mg/l			
	Benzene	1 µg/l			
	Mercury	2 µg/l			
	Cadmium	0.293 µg/l			
Soakaway SW1 as shown on Drawing 12182/560 Rev B dated March 2014	Chloride	250 mg/l	Spot sample	Quarterly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'
	Ammoniacal Nitrogen	12 mg/l			
	Oil & Grease	Visible trace			
	pH	pH _{min} = 6.5 pH _{max} = 8.1			

Table S4.4 Landfill gas in external monitoring boreholes – limits and monitoring as referenced in condition 3.6.1.

Table S4.4 Landfill gas in external monitoring boreholes – limits and monitoring				
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
BH1A, BH2A, BH3, BH4, BH5, BH6, BH7, BH8, BH9 as shown on Drawing 12182/560 Rev B dated March 2014	Methane	1 %v/v	Monthly	In accordance with the Application unless otherwise agreed in writing with the Agency.
	Carbon Dioxide	no limit		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		
BH15, BH16, BH17 as shown on Drawing 12182/560 Rev B dated March 2014	Methane	To be determined in accordance with PO1 as described in Table S1.4B.		
	Carbon Dioxide			
	Oxygen			
	Atmospheric pressure			
	Differential Pressure			
	Temperature			
	Meteorological data			

Table S4.6 Landfill gas – other monitoring requirements as referenced in condition 3.6.1

Table S4.6 Landfill gas – other monitoring requirements				
Emission point reference	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
All in waste boreholes as shown on Drawing 12182/560 Rev B dated March 2014	Methane	Monthly	In accordance with the Application unless otherwise agreed in writing with the Agency.	Where field monitoring for carbon monoxide exceeds 100ppm the operator shall within 3 days undertake a laboratory analysis of landfill gas. Where the laboratory analysis exceeds 25ppm of carbon monoxide, the operator shall investigate the landfill for the presence of fires and where necessary submit a report to the Agency detailing their proposals for extinguishing the fire and reinstating the affected area.
	Carbon Dioxide	Monthly		
	Oxygen	Monthly		
	Hydrogen	Six Monthly		
	Sulphide			
	Atmospheric pressure	Monthly		
	Carbon Monoxide	Monthly		
	Temperature	Monthly		

Table S4.7 Leachate – other monitoring requirements as referenced in condition 3.6.1.

Table S4.7 Leachate– other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications – Limits of detection
LE1, LE2, LE3, LMP1, LMP2, LMP3, LMP4 as shown on Drawing 12182/560 Rev B dated March 2014	Leachate Level	Daily	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	0.01 m
	Electrical conductivity (at 20°C)	Quarterly		50 µS/cm
	pH	Quarterly		To 0.5 pH
	COD	Quarterly		20 mg/l O
	BOD	Quarterly		10 mg/l
	TOC	Quarterly		1 mg/l
	TON	Quarterly		0.2 mg/l N
	Ammoniacal – N	Quarterly		1 mg/l
	Nickel	Quarterly		10 µg/l
	Nitrate	Quarterly		0.2 mg/l
	Nitrite	Quarterly		0.2 mg/l
	Phosphorous	Quarterly		0.1 mg/l
	Selenium	Quarterly		0.75 µg/l
	Silver	Quarterly		0.01 mg/l
	Tellurium	Quarterly		0.1 mg/l
	Thallium	Quarterly		0.5 mg/l
	Tin	Quarterly		0.1 mg/l
	Titanium	Quarterly		0.1 mg/l
	Uranium	Quarterly		0.1 mg/l
	Chromium	Quarterly		10 µg/l
	Chloride	Quarterly		10 mg/l
	Copper	Quarterly		10 µg/l
	Cobalt	Quarterly		0.01 mg/l
	Cyanide	Quarterly		10 µg/l
	Lead	Quarterly		10 µg/l
	Zinc	Quarterly		10 µg/l
	Fluoride	Quarterly		0.05 mg/l
	Beryllium	Quarterly		0.1 mg/l
	Boron	Quarterly		0.1 mg/l
	Barium	Quarterly		10 µg/l
	Arsenic	Quarterly		10 µg/l
	Cadmium	Quarterly		1 µg/l
	Mercury	Quarterly		1 µg/l
Benzene	Quarterly		10 µg/l	
Dichloromethane	Quarterly		1 µg/l	
List I Substances as detailed in Schedule 8.	Annually		To MRV	
	Depth to base of monitoring well	Annually		0.01 m

Table S4.9 Groundwater –other monitoring requirements as referenced in condition 3.6.1.

S4.9 Groundwater – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other Specification - Limits of detection
SW1 as shown on Drawing 12182/560 Rev B dated March 2014	Electrical conductivity	Quarterly	In accordance with Environment Agency document LFTGN02 (February 2003) 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	10 µS/cm
	Ammoniacal nitrogen			0.05 mg/l
	pH			To 0.1 pH
	Chloride			1 mg/l
	Oil & Grease			None visible
BH1A, BH2A, BH3, BH4, BH5, BH6, BH7, BH8, BH9, BH10A, BH10B, BH11A, BH11B, BH12A and BH12B as shown on Drawing 12182/560 Rev B dated March 2014	BOD	Quarterly		1 mg/l
	Groundwater Level			0.01 m
	Electrical conductivity			10 µS/cm
	pH			To 0.1 pH
	COD			5 mg/l O
	BOD			1 mg/l
	TOC			0.2 mg/l
	TON			0.2 mg/l N
	Ammoniacal nitrogen			0.05 mg/l
	Nickel			10 µg/l
	Nitrate			0.1 mg/l
	Nitrite			0.1 mg/l
	Phosphorous			0.1 mg/l
	Selenium			0.75 µg/l
	Silver			0.01 mg/l
	Tellurium			0.1 mg/l
	Thallium			0.5 mg/l
	Tin			0.1 mg/l
	Titanium			0.1 mg/l
	Uranium			0.1 mg/l
	Chromium			0.01 mg/l
	Chloride			1 mg/l
	Copper			0.01 mg/l
	Cobalt			0.01 mg/l
	Cyanide			0.01 mg/l
	Lead			0.01 mg/l
	Zinc			0.01 mg/l
	Fluoride			0.05 mg/l
	Beryllium			0.1 mg/l
	Boron			0.1 mg/l
	Barium			10 mg/l
Arsenic	10 µg/l			
Cadmium	0.1 µg/l			
Mercury	0.01 µg/l			
Benzene	1 µg/l			
Dichloromethane	0.1 µg/l			
List I Substances as detailed in Schedule 8.	Annually	To MRV		

Table S5.1 Reporting of monitoring data as referenced in condition 4.2.2.

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels Parameter as required by condition 3.6.1.	LE 1, LE 2, LE 3, LMP1, LMP2, LMP3, LMP4	Every 3 months	22/05/06.
Emissions to air Parameters as required by condition 3.6.1.	Monitoring locations specified in Table S4.2.	Every 12 months	22/05/06.
Groundwater Parameters as required by condition 3.6.1. List 1 Screen	SW1, BH1A, BH2A, BH3, BH4, BH5, BH6, BH7, BH8, BH9, BH10A, BH10B, BH11A, BH11B, BH12A and BH12B	Every 3 Months Every 12 months	22/05/06.
Landfill gas surface emissions Parameters as required by condition 3.6.1.	As specified in Table S4.5.	Every 12 months	DD/MM/YY
Particulate matter Parameters as required by condition 3.6.1.	As specified in Table S4.10.	Every 12 months	DD/MM/YY
Landfill gas lateral migration Parameters as required by condition 3.6.1.	BH1A, BH2A, BH3, BH4, BH5, BH6, BH7, BH8, BH9, BH15, BH16, BH17	Every 3 months	DD/MM/YY
Other Landfill gas monitoring Parameters as required by condition 3.6.1.	All in waste boreholes	Every 3 months	DD/MM/YY
Other leachate monitoring Parameters as required by condition 3.6.1. List 1 Screen	LE 1, LE 2, LE 3, LMP1, LMP2, LMP3, LMP4	Every 3 months Every 12 months	DD/MM/YY
Other surface water monitoring Parameters as required by condition 3.6.1.	SWM2, SWM3	Every 3 months	DD/MM/YY

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

- 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 6 to this permit within the time period specified in that schedule.

Schedule 3 – conditions to be added

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

- 1.3.3 No activities authorised by this permit shall be commenced in cells 6 and 7 unless the Operator has entered into an Agreement with the Agency or varied the Agreement referred to in 1.3.1 to secure additional financial provision for meeting the obligations under this Permit and has provided the provision.
- 1.3.4 The Operator shall give prior notice to the Agency of its intention to commence operations in cells 6 and 7.
- 1.3.5 Where separate Financial Provision is provided under condition 1.3.3 as opposed to varying the provision provided under condition 1.3.1 that separate provision shall thereafter be maintained by the Operator throughout the subsistence of the permit and the Operator shall produce evidence of such provision whenever required by the Agency.
- 2.6.2 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed.

Table S1.4B Pre-operational measures for future development

Reference	Operation	Pre-operational Measures
1	Waste deposit in Cells 6 & 7	Install perimeter gas boreholes BH15, BH16 and BH17 as identified on Drawing 12182/560 Rev B dated March 2014. Monitor background gas emissions at these locations and propose trigger levels for methane based on the monitoring results.

Schedule 4 – amended plan

The site plan as shown in Schedule 2 to the permit as referenced in condition 2.2.1 of the permit is amended.

Amended plan attached

