

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

WRG Waste Services Limited

Pen y Bont Landfill Site
Pen y Bont Works
Chirk
Wrexham
LL14 5AR

Variation application number
EPR/GP3830BG/V004

Permit number
EPR/GP3830BG

Pen y Bont Landfill Site

Permit number EPR/GP3830BG

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.

This is an Agency Initiated Administrative Variation in response to the completion of Improvement Condition (IC) 1 of permit EPR/GP3830BG by the Operator.

This IC required the Operator to submit control and trigger limits for groundwater parameters for groundwater boreholes T10, BH7, BH8, BH9, BH10, BH11, BH12, BH13 and BH14 as outlined in Schedule 4, Table S4.4

The Schedules specify the changes made to the original permit.

Schedule 1 of the notice lists any conditions that have been deleted, Schedule 2 of the notice lists any amended conditions and Schedule 3 of the notice lists any conditions that have been added.

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

Status Log of permit		
Detail	Date	Response Date
Application - GP3830BG	Received 9/11/2004	
Schedule 4 Information Requests in relation to Landfill Gas Risk Assessment, Stability Risk Assessment and Hydrogeological Risk Assessment.	Requested 27/04/2005	Response received 9/07/2005
Request for further information in relation to Schedule 4 served on 27/04/2005	Requested 13 September 2005	Response received in two sections: 26/09/005 - ECNIA response 27/09/2005 - Golders response
Permit determined - GP3830BG	9/11/2005	
Permit varied - PP3032LN	28/06/2008	
Application for Variation - BP3031XH	Received 10/10/2007	
Permit varied - BP3031XH	30/05/2008	
Application for Admin Variation EPR/GP3830BG/V004	20/01/2011	
Application EPR/GP3830BG/V004 Determined	24/02/2011	

End of Introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/GP3830BG

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

WRG Waste Services Limited (“the operator”)

whose registered office is

Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG

company registration number **988844**

to operate a regulated facility at

Pen y Bont Landfill Site
Pen y Bont Works
Chirk
Wrexham
LL14 5AR

to the extent set out in the schedules.

The notice shall take effect from 24/02/2011

Name	Date
Duncan Chevis	24/02/2011

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

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions, 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.8 and 2.9 of part B of the Application Form.	9 November 2004
Schedule 4 Notice response from WRG Waste Services Ltd	All Parts	Received 9 July 2005
Response from WRG Waste Services Ltd to Agency letter requesting further information dated 13 September 2005	All Parts	Received in two sections dated 26 & 27 September 2005
Revised version of drawing reference WR4446/ESID6A	Doc Ref – 0552552.250 ESID6A	December 05
The location, design, installation and monitoring of additional groundwater monitoring points to be located between the site and the River Dee.	Document Ref 05529525.250 - Golders Associates (UK) Ltd.	7 February 2006
	Document Ref 05529525.250 - Golders Associates (UK) Ltd.	Amended 29 th Sept 2006
Review of the groundwater monitoring data for all existing boreholes individually including submission of revised borehole specific control and trigger levels derived in accordance with Agency guidance document LFTGN01 'Hydrogeological risk assessment for landfills'.	Document Ref 05529525.250 - Golders Associates (UK) Ltd.	7 February 2006
	Document Ref 05529525.250 - Golders Associates (UK) Ltd.	Amended 29 th Sept 2006
Detailed leachate management plan.	Leachate management Plan Version 3 Letter – PYB GF03 – GP3830BG	10 th September 2006
The location, design, installation and monitoring of additional off-site groundwater monitoring points to be located between the site and the River Dee.	Document reference Ref 05529525.500 - Golder Associates (UK) Ltd	February 2007

Table S1.2 Operating techniques

Description	Parts	Date Received
Revised conceptual model from the review of all the information gathered from existing and new groundwater monitoring boreholes	Document reference Ref 05529525.500 - Golder Associates (UK) Ltd	February 2007
Air impact assessment report incorporating detailed air dispersion modelling	Document Reference: Ref 06529200.500 Golder Associates (UK) Ltd Document Reference : Ref 06529200.500 Golder Associates (UK) Ltd	Submitted 7 July 06 Amended 19 Feb 07
Slope Monitoring Plan	Slope Monitoring Plan – Document reference - AS 5916/PYB/rac/01	February 06
Landfill Gas Management Plan	Document Reference: Ref 05529525.501/A.2 Golder Associates	November 2006
Groundwater Control and Trigger levels at T10 and BH7 - 14	Project No. 10514290011.250 Golder Associates	1 st December 2010

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	The Operator shall submit to the Agency borehole specific groundwater control and trigger levels using the first 12 months data obtained from borehole T10. Trigger and control levels shall be derived in accordance with Agency guidance document LFTGN01 'Hydrogeological Risk Assessment for Landfills'. The proposed trigger levels shall be implemented by the operator from the date of approval in writing by the Agency	Completed
2	The Operator shall submit to the Agency for approval, proposed timescales for reducing the leachate head to 1m as required by Table S4.1. The proposed timescales shall be implemented by the operator from the date of approval in writing by the Agency	28 th August 2008

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
BH1, BH2, BH3, BH4, BH5, BH3A, T1, T2, T3, T4, T5, T6, T7, T8, T9, T11 and T13	Chloride	250 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Chromium	0.05 mg/l	Spot Sample	Quarterly	
	Nickel	0.02 mg/l	Spot Sample	Annually	
	Lead	0.025 mg/l	Spot Sample	Quarterly	
	Cadmium	0.5 µg/l	Spot Sample	Biannually	
	Mecoprop	0.04 µg/l	Spot Sample	Biannually	
	Naphthalene	1 µg/l	Spot Sample	Biannually	
BH1	Ammoniacal Nitrogen	2.2 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Zinc	0.033 mg/l	Spot Sample	Annually	
	Manganese	0.1 mg/l	Spot Sample	Annually	
BH2	Ammoniacal Nitrogen	1.3 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	1.1 mg/l	Spot Sample	Annually	
	Zinc	0.029 mg/l	Spot Sample	Annually	
BH3	Ammoniacal Nitrogen	1.5 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	0.04 mg/l	Spot Sample	Annually	
	Zinc	0.033 mg/l	Spot Sample	Annually	
BH4	Ammoniacal Nitrogen	3.0 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	7.7 mg/l	Spot Sample	Annually	
	Zinc	0.014 mg/l	Spot Sample	Annually	
BH5	Ammoniacal Nitrogen	1.4 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	2.3 mg/l	Spot Sample	Annually	
	Zinc	0.031 mg/l	Spot Sample	Annually	
BH3A	Ammoniacal Nitrogen	0.5 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	0.2 mg/l	Spot Sample	Annually	
	Zinc	0.047 mg/l	Spot Sample	Annually	

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
T1	Ammoniacal Nitrogen	3.9 mg/l	Spot Sample	Monthly	To be agreed in writing with the Environment Agency
	Manganese	1.0 mg/l	Spot Sample	Annually	
	Zinc	0.018 mg/l	Spot Sample	Annually	
BH7, BH 8, BH9, BH10, BH11, BH 12, BH 13, BH14 and T10	Chromium	0.05 mg/l	Spot Sample	Quarterley	As per LFTGN02
	Lead	0.025 mg/l		Quarterley	
	Naphthalene	0.001 mg/l		Biannually	
	Mecoprop	0.0001 mg/l		Biannually	
	Cadmium	0.001 mg/l		Biannually	
BH7	Ammonical Nitrogen	1.3 mg/l	Spot Sample	Monthly	As per LFTGN02
	Chloride	250 mg/l		Monthly	
	Zinc	0.02 mg/l		Annually	
	Manganese	0.05 mg/l		Annually	
	Nickel	0.02 mg/l		Annually	
BH8	Ammoniacal Nitrogen	1.2 mg/l	Spot Sample	Monthly	As per LFTGN02
	Chloride	250 mg/l		Monthly	
	Zinc	0.25 mg/l		Annually	
	Manganese	0.30 mg/l		Annually	
	Nickel	0.05 mg/l		Annually	
BH9	Ammonical Nitrogen	0.5 mg/l	Spot Sample	Monthly	As per LFTGN02
	Chloride	250 mg/l		Monthly	
	Zinc	0.02 mg/l		Annually	
	Manganese	0.20 mg/l		Annually	
	Nickel	0.02 mg/l		Annually	
BH10	Ammonical Nitrogen	1.1 mg/l	Spot Sample	Monthly	As per LFTGN02
	Chloride	250 mg/l		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
BH11	Zinc	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Manganese	0.7 mg/l		Annually	
	Nickel	0.02 mg/l		Annually	
	Ammonical Nitrogen	0.39 mg/l		Monthly	
	Chloride	250 mg/l		Monthly	
BH12	Zinc	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Manganese	1.3 mg/l		Annually	
	Nickel	0.02 mg/l		Annually	
	Ammonical Nitrogen	3.5 mg/l		Monthly	
	Chloride	460 mg/l		Monthly	
BH13	Zinc	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Manganese	10.2 mg/l		Annually	
	Nickel	0.04 mg/l		Annually	
	Ammonical Nitrogen	0.7 mg/l		Monthly	
	Chloride	320 mg/l		Monthly	
BH14	Zinc	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Manganese	3.3 mg/l		Annually	
	Nickel	0.02 mg/l		Annually	
	Ammonical Nitrogen	1.9 mg/l		Monthly	
	Chloride	340 mg/l		Monthly	
T10	Zinc	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Manganese	2.6 mg/l		Annually	
T10	Nickel	0.02 mg/l	Spot Sample	Annually	As per LFTGN02
	Ammonical Nitrogen	1.9 mg/l		Monthly	
T10	Chloride	250 mg/l	Spot Sample	Monthly	As per LFTGN02

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
	Zinc	0.02 mg/l		Annually	
	Manganese	6.1 mg/l		Annually	
	Nickel	0.03 mg/l		Annually	

Schedule 3 – conditions to be added

None