

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

3C Waste Limited

**Llanddulas Landfill Site
Abergele Road
Llanddulas
Conwy
North Wales
LL22 8HP**

Variation number

EPR/BU0800IZ/V013

Permit number

EPR/ BU0800IZ

Llanddulas Landfill Site

Permit number EPR/BU0800IZ

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 permit variation incorporates changes to the monitoring schedules and monitoring parameter suites as per recommendations resulting from a Hydrogeological Risk Assessment (HRA) Review carried out in 2020.

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 BU2853IS	Received 27/02/2003	Applicant agrees that separate applications should be conjoined – see letter dated 30 January 2004 Ref 4D-197-126
Application BU0800IZ	Received 09/06/2003	
Permit BU0800IZ determined	06/02/2004	
Variation application EPR/BU0800IZ/V002	Received 08/04/2004	
Variation determined EPR/BU0800IZ/V002	28/04/2004	
Variation application EPR/BU0800IX/V003	Received 10/10/2007	
Variation determined EPR/BU0800IZ/V003	30/05/2008	
Variation application EPR/BU0800IX/V004	Received 30/05/2008	
Variation determined EPR/BU0800IZ/V004	03/06/2008	
Variation determined EPR/BU0800IZ/V005	25/07/2008	
Variation application EPR/BU0800IX/V006	Received 24/12/2008	
Variation application EPR/BU0800IX/V006	Withdrawn 05/06/2009	
Variation application EPR/BU0800IX/V007	Received 21/01/2009	
Variation application EPR/BU0800IX/V008	Received 02/09/2009	

Status log of the permit		
Description	Date	Comments
Variation application EPR/BU0800IX/V007	Withdrawn 12/02/2010	
Variation application EPR/BU0800IX/V008	Refused 21/09/2010	
Application EPR/BU0800IZ/V009	Duly made 08/12/2011	Application to allow importation of leachate for treatment
Variation determined EPR/BU0800IZ/V009	07/02/2012	Varied permit issued
Agency variation EPR/BU0800IZ/V010 determined	12/06/2013	Agency variation to implement the changes introduced by IED
Variation application BU0800IZ/V011 duly made	18/03/2016	Application to vary monitoring and reporting requirements
Variation application EPR/BU0800IZ/V011 determined	10/06/2016	Variation issued
Variation application EPR/BU0800IZ/V012	Duly made 11/01/2021	Application to add two new waste codes
Variation application EPR/BU0800IZ/V012 determined	25/01/2021	Variation issued
Variation application EPR/BU0800IZ/V013	Duly made 11/02/2022	Application to vary monitoring requirements
Additional information received	25/05/2022	Clarifications and additional justification provided to support changes requested to monitoring
Variation application EPR/BU0800IZ/V013 determined	07/07/2022	Varied permit issued

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/BU0800IZ

issued to

3C Waste Limited (“the operator”)

whose registered office is

**3 Sidings Court
White Rose Way
Doncaster
England
DN4 5NU**

company registration number **02632581**

to operate a regulated facility at

**Llanddulas Landfill Site
Abergele Road
Llanddulas
Conwy
North Wales
LL22 8HP**

to the extent set out in the schedules.

The notice shall take effect from 07/07/2022.

Signed

Date

Holly Noble	07/07/2022
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Authorised on behalf of Natural Resources Wales

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:

Table S1.2 has been amended as a result of the application made by the operator and now reads as follows:

Table S1.2 Operating techniques		
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 Llanddulas Landfill Phases 2 & 3a (Reference BU2853IS) and response to questions 3.1.1 in part B of the application form for BU2853IS. The technical details and standards contained within these documents shall apply to Phases 2 and 3a, unless standards are prescribed in other conditions of this permit.	27 February 2003
	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 Llanddulas Landfill Phases 1 & 3 (Reference BU0800IZ). The technical details and standards contained within these documents shall apply to Phases 1 & 3, unless standards are prescribed in other conditions of this permit.	9 June 2003
	Letter reference: 4D-197-126/187: Revised list of non-hazardous wastes to be accepted at Llanddulas Landfill, excluding the acceptance of stabilised hazardous waste.	9 December 2003
	Letter reference: 4D-197-126: Confirmation that applications referenced BU0800IZ and BU2853IS have been conjoined.	30 January 2004
Submission in relation to Improvement Condition 1 of original permit (BU0800IZ)	Egniol CQA report ref. DPM/1612/DW	4 May 2005
Submission in relation to Improvement Condition 2 of original permit (BU0800IZ)	SLR report ref. 4D-197-263	July 2004
Submission in relation to Improvement Condition 4 of original permit (BU0800IZ)	Landfill Gas Emergency Action Plan	April 2004
Submission in relation to Improvement Condition 7 of original permit (BU0800IZ)	SLR report ref. 4D-197-262	July 2004

Table S1.2 Operating techniques		
Description	Parts	Date Received
Submission in relation to Improvement Condition 8 of original permit (BU0800IZ)	Drawing ref. MH/PG/acj/LET0117	5 May 2004
Application	Section 2.6.1 and Drawing 122A199 of the application document (ref. report no. 1498/R/001/1) in response to section 5a – plan for the site, Part C2 of the application form Section 3.3 of the application document (ref. report no. 1498/R/001/1) in response to section 3a – technical standards, part C3 of the application form	23 November 2011
Additional information	All of letter ref. 1498/L/003/1 detailing waste pre-acceptance procedures, acceptance procedures, waste handling and storage arrangements	8 December 2011
Additional information	Leachate/Compost Liquor Acceptance Protocol submitted as part of duly making process for application EPR/BU0800IZ/V012	7 January 2021
Application	Variation application EPR/BU0800IZ/V013 Supporting Operational Documents as follows: <ul style="list-style-type: none"> 5152-CAU-XX-XX-RP-V-0303 EMS Final 5152-CAU-XX-XX-DR-V-1800_S2-P01 	11 February 2022

Table S4.1 shall be amended to read:

Table S4.1 Leachate level limits and monitoring requirements			
Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Phase 2a - LCP2Ar2, LMP4 Phase 2b - LCP2Br2 Phase 2c - LCP2Cr, LMP5 Phase3A – LCP3A, LMP3/2	2m above cell base	Monthly	In accordance with the Environment Agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)
Phase 1A and Phase 1B - LCP1AR, LMP1, LMP2 Phase 1C – LCP1C, LMP3 Phase 3(1) +Extension – LCP3, LMP3/1	2m above cell base	Quarterly	In accordance with the Environment Agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)

Table S4.4 shall be amended to read:

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
GWBH4, GWBH7, GWBH23, GWBH25, GWBH36 as shown on the 2 drawings referenced ESID11 for Phases 1, 2, 3 and 3a	Ammoniacal Nitrogen	1mg/l	Spot Sample	Quarterly	In accordance with the Environment Agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)
	Chloride	250mg/l	Spot Sample	Quarterly	
	Mercury	0.01µg/l	Spot Sample	Quarterly	
	Mecoprop	0.04 µg/l	Spot Sample	Quarterly	
	Potassium	12mg/l	Spot Sample	Quarterly	
	Phenols	0.5µ/l	Spot Sample	Quarterly	

Table S4.5 shall be amended to read:

Table S4.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point ref/ description	Parameter	Limit (incl. unit)	Monitoring frequency	Monitoring standard or method
BH01 – 30, BH41 – 42 as shown on the drawings referenced ESID8 for Phases 1, 2, 3 and 3a	Methane	1% v/v above agreed background levels	Monthly	Portable infra-red detector
	Carbon dioxide	No limit		
	Oxygen	No limit		
	Atmospheric Pressure	No limit		
BH40	Methane	2.5 % v/v above agreed background levels	Monthly	Portable infra-red detector
	Carbon dioxide	No limit		
	Oxygen	No limit		
	Atmospheric Pressure	No limit		
BH31 – 39, BH47 – 57, BH2003/1, Bh2003/2 and BH100-120 as shown on the drawings referenced ESID8 for Phases 1, 2, 3 and 3a	Methane	1% v/v above agreed background levels	Monthly	Portable infra-red detector
	Carbon dioxide	No limit		
	Oxygen	No limit		
	Atmospheric Pressure	No limit		

Table S4.8 shall be amended to read:

Table S4.8 Leachate– other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Phase 3A – LCP3A	Temperature	Quarterly	In accordance with the Environment agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)	
Phase 2a – LCP2Ar2	Electrical	Quarterly		
Phase 2b – LCP2Br2	Conductivity	Quarterly		
Phase 2c – LCP2Cr	pH	Quarterly		
	Ammonical Nitrogen (NH ₄ -N)	Quarterly		
	Chloride (Cl)	Quarterly		
	Total alkalinity (CaCO ₃)(tot alk)	Quarterly		
	Magnesium (Mg)	Quarterly		
	Potassium (k)	Quarterly		
	Total sulphates (SO ₄)	Quarterly		
	Calcium (Ca)	Quarterly		

Table S4.8 Leachate– other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Sodium (Na)	Quarterly		
	BOD	Quarterly		
	COD	Quarterly		
	TOC	Quarterly		
	TON	Quarterly		
	Mecoprop	Quarterly		
	Mercury (Hg)	Quarterly		
	Lead (Pb)	Quarterly		
	Cadmium (Cd)	Annually		
	Nickel (Ni)	Annually		
	Iron (Fe)	Annually		
	Chromium (Cr)	Annually		
	Manganese (Mn)	Annually		
Phase1A and Phase 1B - LCP1AR Phase 1C – LCP1C Phase 3(1)+extension LCP3	Temperature	Annually		In accordance with the Environment agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)
	Electrical Conductivity	Annually		
	pH	Annually		
	Ammonical Nitrogen (NH ₄ -N)	Annually		
	Chloride (Cl)	Annually		
	Total alkalinity (CaCO ₃)(tot alk)	Annually		
	Magnesium (Mg)	Annually		
	Potassium (k)	Annually		
	Total sulphates (SO ₄)	Annually		
	Calcium (Ca)	Annually		
	Sodium (Na)	Annually		
	BOD	Annually		
	COD	Annually		
	TOC	Annually		
	TON	Annually		
	Mecoprop	Annually		
	Mercury (Hg)	Annually		
	Lead (Pb)	Annually		
	Cadmium (Cd)	Annually		
	Nickel (Ni)	Annually		
	Iron (Fe)	Annually		
	Chromium (Cr)	Annually		
	Manganese (Mn)	Annually		

Table S4.9 shall be amended to read:

Table S4.9 Surface water – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Dulas Spring	Flow	Fortnightly	In accordance with the Environment agency's "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02)	None specified
	Ammonical Nitrogen (NH ₄ -N)	Fortnightly		
	Electrical Conductivity	Fortnightly		
	Temperature	Fortnightly		
	Chloride (Cl)	Fortnightly		
	pH	Fortnightly		
	Lead (Pb)	Monthly		
	Mecoprop	Monthly		
	Mercury (Hg)	Monthly		
	List 1 Leachate screen	Annually		
	Volume	Monthly		
W1 as shown on ESID13B for Phases 1 and 3	Temperature	Monthly		
	Electrical Conductivity	Monthly		
	pH	Monthly		
	Ammonical Nitrogen (NH ₄ -N)	Monthly		
	Chloride (Cl)	Monthly		
	Lead (Pb)	Quarterly		
	Mecoprop	Quarterly		
	Mercury (Hg)	Quarterly		
	COD	Quarterly		

Table S4.11 shall be amended to read:

Table S4.11 Landfill gas in ambient air - limits and monitoring requirements					
Emission point reference or source or description of point of measurement	Parameter	Limit (including unit) *	Reference Period	Monitoring frequency	Monitoring standard or method
A full sweep of the site boundary at any points on the immediate site boundary and boundary of the gas plant	Methane in ambient air	10ppmv		Quarterly	Flame Ionisation Detector
In the immediate vicinity of the gas and leachate well heads and monitoring points.	Methane in ambient air	1000ppmv		Quarterly	Flame Ionisation Detector

Schedule 3 – conditions to be added

None