

	EPR Compliance Assessment Report	Report ID: BU0800IZ/0230047			
This form will report compliance with your permit as determined by an NRW officer					
Site	LLANDDULAS LANDFILL SITE		Permit Ref	BU0800IZ	
Operator/ Permit holder	3C Waste Limited				
Date	19/12/2014		Time in	09:30	Out 13:15
What parts of the permit were assessed	Audit of gas infrastructure.				
Assessment	Site Inspection	EPR Activity:	Installation	X	Waste Op
					Water Discharge
Recipient's name/position	Peter Taberner / Unit Manager				
Officer's name	Aled Zachary		Date issued	27/01/2015	

Section 1 - Compliance Assessment Summary					
This is based on the requirements of the permit under the Environmental Permitting Regulations. A detailed explanation and any action you may need to take are given in the "Detailed Assessment of Compliance" (section 3). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS scores can be consolidated or suspended, where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.					
Permit Conditions and Compliance Summary					Condition(s) breached
a) Permitted activities	1. Specified by permit	A			
b) Infrastructure	1. Engineering for prevention & control of pollution	A			
	2. Closure & decommissioning	N			
	3. Site drainage engineering (clean & foul)	N			
	4. Containment of stored materials	N			
	5. Plant and equipment	N			
c) General management	1. Staff competency/ training	N			
	2. Management system & operating procedures	A			
	3. Materials acceptance	A			
	4. Storage handling, labelling, segregation	A			
d) Incident management	1. Site security	A			
	2. Accident, emergency & incident planning	N			
e) Emissions	1. Air	A			
	2. Land & Groundwater	N			
	3. Surface water	N			
	4. Sewer	N			
	5. Waste	A			
f) Amenity	1. Odour	A			
	2. Noise	A			
	3. Dust/fibres/particulates	A			
	4. Pests, birds & scavengers	A			
	5. Deposits on road	A			
g) Monitoring and records, maintenance and reporting	1. Monitoring of emissions & environment	N			
	2. Records of activity, site diary, journal & events	N			
	3. Maintenance records	N			
	4. Reporting & notification	N			
h) Resource efficiency	1. Efficient use of raw materials	N			
	2. Energy	N			
KEY: C1, C2, C3, C4 = CCS breach category (* suspended scores are marked with an asterisk), A = Assessed (no evidence of non-compliance), N = Not assessed, NA = Not Applicable, O = Ongoing non-compliance – not scored					

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Total No Breaches is greater than zero, then please see Section 3 for details of our proposed enforcement response

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- the part(s) of the permit that were assessed (e.g. maintenance, training, combustion plant, etc)
- where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- any non-compliances identified
- any non-compliances with directly applicable legislation
- details of any multiple non-compliances
- information on the compliance score accrued inc. details of suspended or consolidated scores.
- details of advice given
- any other areas of concern
- all actions requested
- any examples of good practice.
- a reference to photos taken

This report should be clear, comprehensive, unambiguous and normally completed within 14 days of an assessment.

Auditor(s) present:

Aled Zachary (Regulatory Officer)

Follow up review to assess:

- Review of improvements to gas infrastructure since previous audit in August 2014.
- Contemporaneous landfill gas field readings.
- Fugitive emissions from gas infrastructure.

Non-compliances:

None were noted at the time of the audit.

Observations / Recommendations:

Gas Infrastructure.

Gas wells **D283, D284 & D285**, which are all located at the base of the recently capped NE Flank of Phase 3A North, were all noted as having leachate pumps in. These wells were noted as removed 5m³, 4m³ and 7m³ per day of leachate respectively, all three wells had good gas composition/ flows and no apparent fugitive emissions.

Gas well **D280** showed signs of potentially being inhibited by perched leachate with a high methane level and H₂S off the scale of the GA2000 instrument. No fugitive emissions were noted therefore this well should be monitored for any deterioration in performance.

D279 also showed signs of being inhibited by perched leachate with a small emission of 300ppm at the base. This well should be closely monitored for performance and a pump installed if necessary.

D278, no fugitive emissions noted and good gas flow.

Gas well **D291** (a recent redrill) showed no signs of any flow. A temporary pin well was located adjacent to it.

(continued.)

D290 recorded a small emission of around 300ppm from the base. Well readings suggested that this may also be affected by high leachate levels. The Canoflex hose connecting the well to the extraction system requires shortening to prevent condensate build up.

D292 also recorded a small emission from the base of the well ~300ppm. The well was switched off from the gas extraction system.

Gas Wells **D295** and **D296** both showed good flow and no fugitive emissions. **D296** should be monitored for perched leachate levels moving forward.

Leachate Tower **LC3A** a small emission was recorded from the bentonite seal. This item of infrastructure has historically been problematic and the improved gas extraction in its vicinity appears to be having a positive effect on levels of fugitive emissions.

D268 a small emission of around ~400ppm from the base of the well was noted. This well had recently been de-silted by infinis in an effort to improve collection efficacy.

D267 an emission of around 3000ppm methane was recorded from the base of the well. This well was noted as showing signs of perched leachate during the previous gas audit in August 2014. GA2000 readings would suggest this well would benefit from pumping. This was the only item of infrastructure noted above the 1000ppm permit limit during the audit.

The lines of old pin wells to the west of Phase 3A North and haul road were inspected. No notable fugitive emissions were noted, which is an improvement from the previous gas audit.

Gas Well **D266** was recorded with no flow. A small emission of ~200ppm was recorded from the base. This well should be assessed for perched leachate and pumped / resealed if necessary.

Recommendations:

Wells noted above as showing signs of being inhibited by perched leachate should be have pump(s) placed in them where possible. Items of gas infrastructure that are identified via fortnightly FID surveys as repeatedly breaching emission limits should also be monitored closely.

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Section 3- Enforcement Response	Only one of the boxes below should be ticked
You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.	
Other than the provision of advice and guidance, at present we do not intend to take further enforcement action in respect of the non-compliance identified above. This does not preclude us from taking enforcement action if further relevant information comes to light or advice isn't followed.	☐
In respect of the above non-compliance you have been issued with a warning. At present we do not intend to take further enforcement action. This does not preclude us from taking additional enforcement action if further relevant information comes to light or offences continue.	☐
We will now consider what enforcement action is appropriate and notify you, referencing this form.	☐

Section 4- Action(s)			
Where non-compliance has been detected and an enforcement response has been selected above, this section summarises the steps you need to take to return to compliance and also provides timescales for this to be done.			
Criteria Ref.	CCS Category	Action Required/Advised	Due Date
See Section 1 above			

Section 5 - Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- advise on corrective actions verbally or in writing
- require you to take specific actions in writing
- issue a notice
- require you to review your procedures or management system
- change some of the conditions of your permit
- decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you.

● We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.

● Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- ensure you comply with other legislative provisions which may apply.

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance which could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General Information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfill its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- offering/providing you with its literature/services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within twenty working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with the officer's line managers. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00–18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.