

	EPR Compliance Assessment Report	Report ID: BU0800IZ/0255188			
This form will report compliance with your permit as determined by an NRW officer					
Site	Llanddulas Landfill EPR/BU0800IZ		Permit Ref	BU0800IZ	
Operator/ Permit holder	3C Waste Limited				
Date	26/11/2015		Time in	09:30	Out 15:30
What parts of the permit were assessed	Gas extraction system, infrastructure and operational gas management				
Assessment	Audit	EPR Activity:	Installation	X	Waste Op
					Water Discharge
Recipient's name/position	Peter Taberner/Site Manager				
Officer's name	Anthony Roberts		Date issued	08/01/2016	

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	N	
b) Infrastructure	1. Engineering for prevention & control of pollution	C3	1.1.1; 3.1.1
	2. Closure & decommissioning	N	
	3. Site drainage engineering (clean & foul)	N	
	4. Containment of stored materials	N	
	5. Plant and equipment	A	
c) General management	1. Staff competency/ training	N	
	2. Management system & operating procedures	A	
	3. Materials acceptance	N	
	4. Storage handling, labelling, segregation	N	
d) Incident management	1. Site security	N	
	2. Accident, emergency & incident planning	N	
e) Emissions	1. Air	C3	3.3.5; 3.3.1
	2. Land & Groundwater	N	
	3. Surface water	N	
	4. Sewer	N	
	5. Waste	N	
f) Amenity	1. Odour	A	
	2. Noise	N	
	3. Dust/fibres/particulates	N	
	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	A	

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	2	Total compliance score (see section 5 for scoring scheme)	8
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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.

REVIEW OF GAS INFRASTRUCTURE - AUDIT 2 DAYS

Non Compliances:

B1 - Engineering for prevention and control of emissions.

Requirements - Condition 1.1.1(a) states;

The activities shall be managed and operated:

in accordance with a management system, which identifies and minimises risks of pollution including those arising from operations, maintenance, accidents, incidents and non conformances and those drawn to the attention of the operator as a result of complaints.

- Condition 3.1.1; there shall be no point source emissions to water air or land except from the sources and emission points listed in schedule 4 tables S4.2, S4.3 and S4.4.

Findings - A large hole has opened up around well 295, up to 2m deep with strong odour detected in the proximity of the well. This is an unusual occurrence and should be investigated as it represents an increased risk of pulling oxygen into the system, the potential to cause a health and safety issue from the opening of the hole and the environmental impact of gas emanating from the annulus around the well. A strong sickly odour was detected on our return to the hole with the site manager. Investigate the reason for the development of this void around the well and please provide the mitigation response and any other follow up actions.

As a result these findings have been scored a **Category 3 CCS**

E1 - Emissions, Air

Requirements - Condition 3.3.5 states the limits for landfill gas arising from the installation shall not exceed the limits set in table S.4.11.

- Condition 3.3.1 states that; Fugitive emissions of substances shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise those emissions.

Findings - Fugitive emissions around landfill gas and leachate infrastructure were assessed using a Gazomat portable methane detector. The results are provided in the attached methane emissions survey. As well as the breaches of the 1000ppm limit there were ambient concentrations which indicate the requirement for improved gas capture. This will be achieved by the installation of new drilled wells. 12 new drilled wells are due to be installed on Phase 3A

imminently.

Other Findings/Actions

1. Please submit a summary of improvements to gas system including new pin wells to date and any future improvements planned including new wells.
2. Infinis are to ensure that they assess breaches observed during FID surveys immediately and inform the site manager of actions to ensure multiple breaches do not occur so as to reduce future emissions and concomitant CCS scores.
3. Short update bullets points of findings and actions in regard to the above should be provided from Infinis to the manager and referred to NRW as agreed during the site meeting.
4. A simple reporting system should be established for issues with flooded wells, poor sealing, condensate in pipe-work, poorly laid leaking lines, air leaking from pneumatic fixings for pumps, non cycling of pumps in wells, wells which have been suddenly shut off for high oxygen/balance gas, wells which are under positive pressure including the combination of positive pressure and high H₂S. This should be succinct and forwarded to NRW where appropriate.
5. The electronic flow meter and gas analyser in the compound is malfunctioning. Please provide an update as to the current status of this meter.
6. Latest well dips were requested from Infinis for phase 3A. Please provide these as soon as possible.
7. Pneumatic leaks at air pumps; Compressing air requires a significant use of resource. Please ensure all air leaks in the pneumatic system are repaired ASAP. This is required under the resource efficiency requirements of the IPPC Directive. Please provide details of management system changes to ensure leaks of air are stopped from the pumps in gas wells to avoid scoring on future audits/inspections.
8. Please note and expedite the recommended actions in the well analysis table attached to this correspondence. This includes the issues with tilted wells, kinked pipe-work, no apparent flow in some wells, localised odour (on site and in proximity of the well) and some in-well pumps not functioning as intended as well as the air leaks from some of the air pump seals.

NOTE: Bag samples are required to confirm exact levels for high H₂S in all wells where the levels were identified in the attached table as off scale. Where H₂S is high in individual wells and they are under positive pressure or have leaking seals so that gas is escaping from the area around the well these wells should be flagged as higher risk, especially in areas of depression and still air conditions.

Attachments:

Methane Emissions Survey

Gas Well Survey

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Operator/ Permit	3C Waste Limited	Date 26/11/2015

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			
B1	C3	Infinis to ensure that technicians inspect features and pipe-work systems when well readings are being taken and report any such issues to the FCC site manager immediately so that appropriate actions can be taken and reported to NRW wherever possible. Any issues with the gas system which could constitute a breach to be raised with NRW as soon as discovered. If discovered by Infinis this should be immediately reported to FCC and then flagged up where appropriate to NRW. Infinis to repair hole around well seal and report findings of investigation into the cause of this event and any re-occurrence.	N/A
E1	C3	Action plan for reduction in emission to below permit level raised to urgent where pre audit/inspection surveys show that there is a breach. This should be flagged up to by Infinis to FCC immediately and any action taken reported to NRW. New wells to reduce fugitive and point source emissions are required. These wells are due to be installed imminently.	N/A

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.