

 Cyfoeth Naturiol Cymru Natural Resources Wales	EPR Compliance Assessment Report		Report ID: BU0800IZ/0205876	
	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	12/03/2014	Time in	12:50	Out 14:20
What parts of the permit were assessed	Site activities and infrastructure, Quarterly monitoring submissions.			
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	04/04/2014	

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

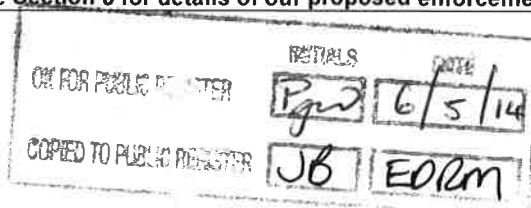
a) Permitted activities	1. Specified by permit	A	
b) Infrastructure	1. Engineering for prevention & control of pollution	*C3	3.3.1;
	2. Closure & decommissioning	N	
	3. Site drainage engineering (clean & foul)	A	
	4. Containment of stored materials	A	
	5. Plant and equipment	A	
c) General management	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	C3	3.3.5;
	2. Land & Groundwater	*C4	3.2.3;
	3. Surface water	A	
	4. Sewer	A	
	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	A	
	2. Records of activity, site diary, journal & events	A	
	3. Maintenance records	A	
	4. Reporting & notification	A	
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	3	Total compliance score (see section 5 for scoring scheme)	4
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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.

Site Inspection 12/03/14.

Site inspection undertaken to assess site progress of waste infilling, infrastructure improvements and if there were any off-site odour / amenity issues. Prior to the site inspection the local villages of Llysfaen and Llanddulas were visited and no offsite odours were noted.

Requirements - Condition 3.3.1 states 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 – The line of pin wells to the south of the haul road and adjacent to Gas Wells D267, D268 & D269 were being removed and leachate removal pumps added to the aforementioned wells. This should improve landfill gas control in this area of the site. The NE Flank of Phase 3A North adjacent to where waste is being tipped currently lacks sufficient / adequate gas extraction infrastructure. Some odour in this area was present during the inspection although it did not appear to be causing an off-site amenity issue at that time.

***NB - This score has been suspended at present as the operator has identified these areas of the site as problematic. Temporary Pin Wells are due to be drilled commencing on the 13/03/14 and should be completed by the 17/03/14. Management of gas well coverage in this area of the site will be reviewed once the pin wells are installed and connected to the gas extraction system.**

Environmental Monitoring.

We have reviewed the following quarterly monitoring reports required by Condition 4.2.2 of the Permit: Llanddulas Landfill site quarterly environmental monitoring reports 1st August 2013 to 31st October 2013 and 1st November 2013 to the 31st of January 2014.

Groundwater.

Requirements - Condition 3.6.1(c) requires monitoring of groundwater quality as per tables S4.4 & 4.10 of the permit. Condition 3.2.3 states that the trigger levels for emissions into groundwater shall not exceed the levels set out in S.4.4.

Findings - GWBH4 failed the permit limit for potassium on the 14th of October 2013 (16mg/l verses the permit limit of 12mg/l). No other determinants failures were noted on this day from this borehole or for the rest of the monitoring periods, so it is not assumed to be evidence of any contamination from land filling operations. This borehole has subsequently undergone a purging trial during the latest monitoring round, which has shows an encouraging influence on results obtained.

***NB: As a consequence the non compliance score for the breach of permit limits for this borehole is currently suspended until further information becomes available following the purging trial.**

Fugitive Emissions Monitoring.

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. Flame Ionisation Detector (FID) surveys are required to be conducted monthly at the site boundary and in the immediate vicinity of gas and leachate well heads and monitoring points.

Findings - FID surveys carried out during the monitoring period 1st of August - 31st of October found a total of 24 breaches of the 1000ppm permit limit for fugitive methane emissions in the vicinity of gas and leachate well heads. This is again an improvement compared to the previous reporting quarter, in which 36 breaches were recorded. September was the worst month relatively, with 18 breaches of the limit recorded. LMP3/2 was recorded at 10,000ppm on the 25/09/13; this was also recorded as breaching the permit limit during the audit of the 23-24/07/13. WC132 breaches the permit limit on the 14/08/13 (3,000ppm) and the 25/09/13 (2,000ppm) and RD243 on the 25/09/13 (2,000ppm) and the 16/10/13 (8,000ppm) respectively. Interestingly 3 of the permit breaches were recorded on gas wells located on Phase 2 of the site also.

FID surveys carried out during the monitoring period 1st of November - 31st of January found a total of 12 breaches of the 1000ppm permit limit for fugitive methane emissions, with the majority of these breaches occurring in November. LCF1 was recorded at 5,000ppm on the 20/11/13; this item of infrastructure was also identified as problematic during the audit on 23-24/07/13.

Identification and remediation of fugitive emissions has improved over the course of the monitoring period as a result of new procedures introduced since March 2013. There is an encouraging reduction in the amount and frequency of breaches towards the latter end of the most recent monitoring submission as a result.

***NB: The breaches for monitoring period 1st of August - 31st of October have been scored as a breach of permit requirements due to some items of gas infrastructure exceeding the limits on consecutive months.**

The breaches for monitoring carried out for the period 1st November - 31st of January have not been scored as these breaches were documented during the technical landfill gas review carried out on the 19/12/13.

Although it is recognised that there has been an improvement in reducing fugitive emissions, some reoccurring point sources remain and issues regarding the timeliness of remediation of these breaches remain.

Lateral Migration of Gas.

Requirement - Condition 3.1.2 Schedule 4, S4.5 requires Methane concentrations in perimeter boreholes to be less than 0.5% above background.

Findings - There are no breaches of permit limits in perimeter monitoring boreholes for this monitoring period.

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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.			X
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	No action specified. To be reviewed once the installation of pin wells in this area of the site is complete.	N/A
E1	C3	Any emission points identified above 1000ppm should be investigated and appropriate repair or sealing work carried out to prevent future reoccurrence.	N/A
E2	C4	No action specified. To be reviewed once the borehole purging trial is complete.	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.

