

Compliance Assessment Report

Report ID:
CAR_NRW0035046

This form will report compliance with your permit as determined by an NRW officer

Site	Pwllfawtkin Landfill Site EPR/BU8819IV	Permit Ref	BU8819IV			
Operator/Permit holder	FCC Waste Services (UK) Limited					
Regime	Installations					
Date of assessment	12/04/2019	Time in	11:00	Out	14:00	
Assessment type	Audit					
Parts of the permit assessed	2.7, 1.1,					
Lead officer's name	Thomas, Ffion					
Accompanied by						
Recipient's name/position	Richard Thomas/ Site manager	Date issued	26/04/2019			

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). 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	CCS Category	Condition(s) breached
B1 - Infrastructure - Engineering for prevention and control of emissions	A	
B4 - Infrastructure - Containment of stored materials	A	
B5 - Infrastructure - Plant and equipment	A	
C3 - General Management - Materials acceptance	A	

KEY: See Section 5 for breach categories, suspended scores will be indicated as such.

A = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,

O = Ongoing non-compliance, not scored.

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
-----------------------------	---	--	---

If the Number of breaches recorded is greater than zero, please see Section 3 for 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 (eg. 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 advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

This Compliance Assessment Report (CAR) form was completed following the pre-planned visit to Pwllfawatkin Landfill site (EPR permit BU8819IV) on Friday 12th April 2019.

Present:

Richard Thomas – FCC site manager

Ffion Thomas – NRW

Observations made during the site walk over/visit:

Annotated photographs taken during the site visit are added as an appendix to this CAR titled "Pwllfawatkin landfill site visit 12th April 2019"

SW Discharge point. Visual checks were undertaken of the Surface Water discharge point at the entrance road bridge located downstream of the site weight bridge. The discharge was running clear and there was no visible signs of staining marks nor sediment build up at the discharge point headwall.

Ground water monitoring borehole 11B Borehole (BH) 11b has been the subject of long running monitoring limit breaches specifically for Ammonical Nitrogen. There has been discussion added into the annual report and HRA (amendment) submissions where FCC wish to revise the permitted emission limit. Separate comment has been made on this matter via email of the 11th April 2019, subject line Pwllfawatkin Annual report and HRA discussion, and a further meeting is planned for the 20th May 2019.

This site visit though provided an opportunity to visit the location and get bearing's against other monitoring boreholes, and the believed location of a mine water audit that is being considered by FCC as possibly impacting BH11B's monitoring results.

BH11A is located to the south of BH11B by a matter of a few meters. However, the ammonical nitrogen levels are not being breached at this location. A request has/will be made during the meeting of the 20th May for drill logs, to better understand at what level of Ground water is being collected at these boreholes.

The location of the mine audit is at the northern boundary of the phase 1 tip. The audit was uncovered some years back when surface water drainage from the phase 1 tip restored cap was connected to the audit. The audit is said to then crossing over the haul road at a location near to

BH17A. Bh17A is not known to show trends of ammonical breaches.

The depth of the mine audit is unknown, but again FCC are advised to investigate this against the BH drill logs to see if there could be a connection of groundwater geohydrology.

The limit breaches at BH11B will be further discussed at the site meeting on the 20th May but this site visit did prove useful in confirming BH locations.

See photographs of BH location and believed mine audit location.

Phase 1 Cap This area was checked as the HRA report suggests a large volume of rainwater ingress in calculations of leachate production at the phase 1 landfill.

A visual inspection was undertaken of a section of the phase 1 cap. The Eastern flank was inspected from BH11B towards BH12B. A slip of soils had occurred in this area back in 2017 but repair work was undertaken, and no obvious signs of recent movement noted.

The operator confirmed that the phase 1 landfill is regularly walked over, and gas monitoring undertake also record observations. The site manager stated there was no record of cap damage nor subsidence around monitoring infrastructure.

Every leachate well is pumped, and each pump logs the hours of operation, this could provide information to calculate leachate production if required for the HRA and to review the site conceptual site model.

The item related to leachate production will again be further discussed on the 20th May.

Phase 2 landfill.

Tipping stand-off for the sidewall cell was inspected and again appeared to be clear of the cell edge/containment, with no visual signs of over tipping. See photographs.

Waste acceptance: The tipping face was active during the inspection with wastes being received. Areas not active and covered with daily cover were visually inspected. Of the wastes protruding no non-conforming wastes were witnessed at the time of this inspection.

Birds: There were some birds noted on the landfill tipping face during the visit, but the measures as per guidance document “How to comply with your landfill permit” requires/states “The measures you use to mitigate bird nuisance should include the employment of good landfill practice, with prompt disposal and compaction, working in small active areas with progressive covering of waste....” These practices were observed at the time of the visit.

See photographs.

A perimeter walk of the phase 2 site was undertaken. During this time a section of temp cap was brought to the attention of the inspector by Richard Thomas as being wind damaged. A repair had been attempted and the material weighted down to make safe. Permanent capping of the flank is due in summer of 2019. CQA will be required.

Sumps: The phase 2 landfill has been built with groundwater sumps to achieve hydraulic containment. Now that waste is permanently capped in areas the sumps 1 to 3 have been switched off. Sumps 4 and 5 remain operating. Sump 5 was seen actively pumping during the

time of the inspection. It is noted that this ground water discharge is showing visual signs of ochre deposits, and it is believed that there is ingress of mine water, possibly connected to the aforementioned audit. See photographs.

Discussion in the HRA meeting of the 20th will confirm the sumps being off at cells 1-3.

There were no visual signs of cap subsistence noted during the perimeter walk. There are areas of the landfill that have dipped but this is expected as waste settles. No evidence has been noted of infrastructure damage of the cap through settlement.

Borehole replacement BH2 was lost during previous cell construction. No replacement has been drilled to date into the area it covered. Initial proposals were discussed with the site manager as to the allocation of a new borehole. This would provide upgradient monitoring location and “plug the gap” in the current network. Richard Thomas confirmed that it could be feasible to bring in a drilling rig to the south west corner of phase 2 and a new borehole could be considered near to the location of the current perimeter gas monitoring point 19. This item can be further discussed but FCC are advised to drill an Upgradient GW monitoring borehole to provide a full monitoring network.

Of the monitoring boreholes inspected 1 needed a repair/improvement– WBH14 needs to have the cover extended so that the head of the well is within the lockable casing. The landfill guidance note LFGN02 does cover the need to prevent the ingress of foreign matter. Site operator confirmed the borehole casing will be extended to provide this protection.

See photographs.

The leachate wells at phase 2 are also pumped and again the pump house has each well pump logged for hours of operation. This could provide a means of calculating leachate abstraction rates and used to review the conceptual site model. This item will again be discussed as part of the HRA meeting on the 20th may.

Netting is in place on the tipping face of the sidewall cell. It is located to prevent windblown litter off the tipping face. No fresh litter was noted in the site perimeter.

Leachate storage tank A visit to the leachate storage tank was undertaken. No malodour was detected at the time of the visit. No active pumping was occurring into the storage lagoon. (Leachate first enters the holding tanks before passing into the storage lagoon) Previous odour complaints had been associated with a high hydrogen sulphide level in the leachate. The hydrogen sulphide levels are now reported as returning to accepted levels and the discharge treatment plant that receives the leachate (Tradebe Bridgend) is accepting the waste.

Leachate levels at the site are returning into compliance. An action plan had been agreed but will be reviewed against the 2019 Q1 monitoring and assessed under separate CAR form.

Though not discussed during the inspection, please ensure the tank filling returns bund is cleared of soil build-up to ensure leachate return to the storage lagoon is fully free flowing.

ACTIONS FCC:

Confirm additional ground water borehole installation, CQA will be required. To be discussed further with site engineers once proposals confirmed.

Improvements to WBH14 to ensure borehole can be closed to prevent ingress.

Clear leachate tank filling secondary bund of soil/debris build up.

EPR Compliance Assessment Report

**Report ID:
CAR_NRW0035046**

This form will report compliance with your permit as determined by an NRW officer

Site	Pwllfawatkin Landfill Site EPR/BU8819IV	Permit Ref	BU8819IV
Operator/Permit holder	FCC Waste Services (UK) Limited	Date	12/04/2019

Section 3 – Enforcement Response

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.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

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 verbally or 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 that 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 fulfil 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 (eg. 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
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental 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 fifteen 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 officer's line managers using the informal appeals procedure. 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.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.