

Compliance Assessment Report

Report ID:
CAR_NRW0034808

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

Site	CWMRHYDYCEIRW QUARRY LANDFILL	Permit Ref	TP3835LV		
Operator/Permit holder	SI Green UK Limited				
Regime	Installations				
Date of assessment	28/02/2019 - 13/03/2019	Time in	N/A	Out	N/A
Assessment type	Report/Data Review				
Parts of the permit assessed	4.2.1				
Lead officer's name	Thomas, Ffion				
Accompanied by					
Recipient's name/position	Guy Titman/ consultant	Date issued	13/03/2019		

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
A1 - Specified by permit	A	
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	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
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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 has been completed following the review of the Cwmrhydyceirw landfill annual report 2018 and performance review as per condition 4.2.1 of the permit.

The report was submitted via email to NRW on the 28th February 2019 (as per agreed submission timeframe extension) the condition is subdivided into 9 areas A-I and a response has been provided under each heading.

The landfill is non-operational and not accepting waste. Planning permission was granted to develop housing at and in proximity to the quarry hence the works necessary to prepare the site for waste disposal will not take place. The former landfill area will remain in situ and is being capped and restored. The capping works commenced on 15 October 2018.

An application to vary the permit to progress the site to definite closure was submitted to NRW in November 2018 and an application to partially surrender the permit in respect of the majority of the non landfill areas of the site was submitted to NRW in December 2018. These applications are under review with NRW's permitting team. Meetings have been held to discuss the legislative way forward. Updates on application determination will be provided separately to this CAR form.

4.2.1 (a) The summary review of the emissions data confirmed no compliance breaches:

Ground & surface water discharge:

the results of monthly monitoring provided by SI Green UK Limited (SIG) demonstrate that the emission limits specified in Table S4.3 have not been exceeded.

Following detection of the exceedance of Chloride (255mg/l on 11 April 18) and suspended solids

(54.4mg/l on 5 Dec 2018) SIG followed the action plan dated 29 June 2015 agreed with NRW pursuant to Improvement Programme Requirement 6 of the permit.

The 3 point rolling average concentration for chloride was calculated for April 2018 at 154.5mg/l which did not exceed the emissions limit of 221mg/l hence it was not necessary to divert the discharge to sewer and the discharge to Cwmrhydyceirw Stream continued. No further exceedance of the chloride emission limit of 221mg/l the discharge was recorded in 2018.

the 3 point rolling average concentration for suspended solids was calculated for December 2018 of 21.1mg/l which did not exceed the emissions limit of 40mg/l hence it was not necessary to divert the discharge to sewer and the discharge to Cwmrhydyceirw Stream continued. Irrespective of this, the discharge was diverted to the sewer and resampling was undertaken on 11 December 2018. Following receipt of the results of the resampling which demonstrated that the suspended solids concentration (3.6mg/l) was below the emission limit of 40mg/l the discharge was switched back to the Cwmrhydyceirw Stream. SIG informed NRW on 17 December 2018 of the exceedance of the emission limit and the actions taken.

The volume of water discharged to the Cwmrhydyceirw Stream during the period January 2018 to December 2018 inclusive was 132,995m³.

Leachate, Groundwater & surface water quality monitoring: No notifications were received for emission limit breaches. It is noted the 2018 concentrations in general are consistent with 2015, 2016 and 2017.

The trend is demonstrate falling concentrations of ammonical nitrogen and chloride recorded previously in the ground and surface waters.

Nickel concentrations along the southern boundary followed a general rising trend.

The concentrations of metals in the leachate are low and similar to the concentrations recorded in the groundwater. In general, the concentrations are said to be higher in the groundwater than in the combined ground and surface water sump. Concentrations of contaminants in the leachate do not exceed the control level set in the HRA.

Three new groundwater monitoring boreholes (CWMGW10 to CWMGW12) were installed at the site in 2018. Sampling commenced in Jan 2019 and will be included in the 2019 review.

Groundwater and leachate levels: There were no breaches of emission limits.

The levels are reported to be consistent and said to confirm the conceptual model (2014 HRA) assumptions.

Landfill gas monitoring:

With the exception of a methane concentration of 2.0% by volume recorded in borehole LFG36 in September 2018, no methane concentrations above 1.0 % by volume were recorded in any of the boreholes external to the waste during 2018. Borehole LFG36 is located to the east of the landfill site.

The report indicated an understanding that the data has been reported to NRW. A review of submissions did not find a notification nor monitoring reporting. Please forward monitoring results as required by the permit.

No methane concentrations above 0.1% have been recorded in any of the gas monitoring boreholes installed in 2018 during the monthly gas monitoring undertaken between September 2018 and December 2018.

Other reporting requirements

(b) where the operator's management system encompasses annual

improvement targets, a summary report of the previous year's progress

against such targets;

There are no improvement targets against which to summarise progress.

(c) the energy consumed at the site, reported in the format set out in schedule 5

table S5.3

The landfill currently is not operating hence the energy consumed at the site is minimal

The energy usage at the site for the calendar year 2018 is 32,807kWh (32.807MWh) which is similar to the energy usage at the site for the calendar years 2017 (28,831kWh (28.831MWh)) and 2016 (33,246 kWh (28.356MWh)).

(d) the annual production/treatment set out in schedule 5 table S5.2;

The volume of leachate discharged to sewer in the period January 2018 to December 2018 inclusive was 193m³ which represents a decrease in the annual volume discharged compared with 2017 (303m³).

The volume of groundwater and/or surface water discharged to the Cwmrhydyceirw Stream during the period January 2017 to December 2017 inclusive was 135,678m³.

Groundwater/surface water was discharged to sewer between 5 December 2018 and 17 December 2018

The estimated that the volume of groundwater/surface water discharged to the sewer during this period was approximately 7,379m³. The volume of groundwater and/or surface water discharged to the Cwmrhydyceirw Stream during the period January 2018 to December 2018 inclusive was 132,995m³ which is similar to the volume of 135,678m³ discharged in 2017

(e) details of any contamination or decontamination of the site which has

occurred;

It is understood that there has been no contamination or decontamination of the site undertaken during the reporting period.

(f) the topographical surveys required by condition 3.6.3 other than those submitted as

part of a CQA validation report;

Topographical surveys of different areas of the site have been carried out previously and reported to the Environment Agency. As the landfill currently is not operating no additional topographic

surveys have been undertaken with respect to Condition 3.6.3 in 2018.

(g) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;

As the landfill site is not operating no waste has been deposited at the site during 2018

(h) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;

As no waste has been deposited at the site since the permit was issued in 2008 and no additional topographical surveys have been carried out no assessment of the settlement behaviour of the waste at the site has been carried out.

(i) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey.

No waste has been deposited at the site since the original permit was issued in December 2008.

As the site will not be developed as a landfill it is considered that there is no remaining void.

EPR Compliance Assessment Report

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Operator/Permit holder	SI Green UK Limited	Date	28/02/2019

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.