

Natural Resources Wales permitting decisions

Bespoke Variation

We have decided to issue the variation for Llanddulas Landfill site operated by 3C Waste Limited.

The variation number is [EPR/BU0800IZ/V011](#)

We consider in reaching that decision we have taken into account all relevant considerations and legal requirements and that the permit will ensure that the appropriate level of environmental protection is provided.

Purpose of this document

This decision document:

- explains how the application has been determined
- provides a record of the decision-making process
- shows how all relevant factors have been taken into account
- justifies the specific conditions in the permit other than those in our generic permit template.

Unless the decision document specifies otherwise we have accepted the applicant's proposals.

Structure of this document

- Key issues
- Annex 1 the decision checklist

Key issues of the decision

The application proposed changing a number of schedules to the permit relating to environmental monitoring.

The changes made are as follows:

A number of sample point references have been updated to reflect replacement sampling points.

The monitoring frequency for the measurement of leachate levels within the site to be reduced from weekly to monthly (**Table S4.1**). This new frequency is in accordance with the guidance in TGN02, Table 6.9.

The monitoring frequency of Ammonical Nitrogen, Chloride, Mecoprop in groundwater has been reduced from monthly to quarterly (**Table S4.4**). This brings these parameters in line with the other parameters and is consistent with the guidance in TGN02.

The monitoring frequency for the measurement of landfill gas in boreholes BH100-120 has been reduced from weekly to monthly (**Table S4.5**) and for the remaining boreholes from weekly to fortnightly. This leaves the boreholes where the results are of needed more frequently to be monitored fortnightly but allows these boreholes where the results are not needed as frequently to be monitored monthly. This is consistent with the guidance in TGN03 Table 5.1.

The trigger concentrations for methane have been increased to 1% for all locations except point BH40. This 1% is in line with the guidance in TGN03 Table 8.2. The methane trigger level for BH40 has been varied to 2.5%. This having been previously considered and agreed by the area landfill gas technical specialists,

The trigger levels for carbon dioxide have been removed in accordance with the position statement on the Industry Code of Practice of August 2011.

The monitoring frequency of Temperature, Electrical Conductivity and pH in leachate has been reduced from monthly to quarterly (**Table S4.8**). This brings these parameters in line with the other parameters and is consistent with the guidance on TGN02 Table 6.8.

The monitoring frequency of Water Level, Electrical Conductivity, pH, Ammonical Nitrogen, Chloride, Lead, Mecoprop and Mercury in groundwater has been reduced from monthly to quarterly (**Table S4.10**). This brings these parameters in line with the other parameters and is consistent with the guidance on TGN02.

Annex 1: decision checklist

This document should be read in conjunction with the application and supporting information and notice.

Aspect considered	Justification / Detail
The permit conditions	
Monitoring	We have decided that monitoring should be carried out for the parameters listed in the permit, using the methods detailed and to the frequencies specified. See Key issues above.