

Your ref: DP3733BK

Our ref: 14739/3505/CBH/RHT/VKR/AREA 2 GAS



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PPC Team  
Natural Resources Wales  
Rivers House  
Fortran Road  
St Mellons Business Park  
Cardiff  
CF3 0EY

**Peter Brett Associates LLP**  
Caversham Bridge House  
Waterman Place, Reading  
Berkshire RG1 8DN  
T: +44 (0)118 950 0761  
F: +44 (0)118 959 7498  
E: reading@pba.co.uk

**Attn: Mr David Willey**

Dear David

**RE: DP3733BK - DOCKSWAY DISPOSAL SITE. LATEST AREA 2 GAS MONITORING RESULTS, ROUNDS 161 to 165.**

We write to provide the latest gas monitoring report for Area 2 of Docksway Disposal Site. Gas monitoring is required on a monthly basis at Area 2 of Docksway Disposal Site and the results of the monitoring are reported to NRW on a quarterly basis generally.

We enclose with this report five data sheets showing the results collected between July and November 2017 (i.e. Rounds 161 to 165).

Gas monitoring wells are installed at approximately 100m intervals around the Area 2 landfill perimeter and there are currently thirteen available monitoring wells. Eleven wells were monitored during Rounds 161, 162 and 163 (GP06\_25 and GP05\_22 recorded as flooded), and twelve were monitored during Rounds 164 & 165 (GP05\_22 recorded as flooded).

Trigger Levels

Trigger Levels for all the Area 2 wells are shown on the attached data tables.

Results Summary

The methane and carbon dioxide concentrations recorded at each of the gas monitoring wells between July and November 2017 are summarised on the attached data sheets.

The concentrations of methane and carbon dioxide did not exceed the well specific trigger levels at the majority of the Area 2 wells monitored during rounds 161 to 165. The exceptions to this are as follows;

- GP03\_06 – recorded a peak methane concentration of 3.2% during R161 although the steady state concentration was below the trigger level at 0.1%.

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**Registered Office:** Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN. UK. T: +44 (0)118 950 0761 F: +44 (0)118 959 7498  
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- GP09\_18 – has recorded both peak and steady methane concentrations that exceed the trigger level on each monitoring visit. Peak methane concentrations range between 15.6% (August) and 55.9% (October).
- GP09\_20 – recorded both peak and steady methane concentrations that exceed the trigger level during R161 (15.9% peak, 15.4% steady) and R162 (2.3% peak, 1.9% steady).

### Concluding Remarks

In general, it is considered that the results obtained from the five rounds of gas monitoring are within the range of results obtained since commencement of monitoring with the following exceptions:

- GP09\_18 which recorded the highest methane concentration for 9 months at this location during R164 and elevated concentrations during all other rounds.
- GP03\_06 where the peak methane concentration recorded during R161 was elevated, but significantly lower than the previous maximum exceedance during R160. The concentrations recorded in all subsequent rounds were below the trigger levels.
- GP09\_20 during R161 recorded its highest methane concentration since July 2015. However, between R163 to R165 the methane concentrations at this location were recorded below the trigger levels.

The source or reasons for the elevated methane at GP09\_18 and GP03\_06 is unknown. NCC will continue to undertake Area 2 perimeter gas monitoring on a monthly basis and PBA will continue to provide factual reports to NRW on a quarterly basis.

Yours sincerely

**Kate Riley**

For and on behalf of

**PETER BRETT ASSOCIATES LLP**

Cc. Gwyn Jones – NCC (Docksway Disposal Site)

Enc. Gas Monitoring Data Tables