



Trecatti Landfill Site

Improvement conditions 2 and 3 as required in Table S1.3 Permit RP3733PC
V008

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Trecatti Environmental Control Advisor

1. Introduction

Trecatti, located close to the town Merthyr Tydfil (see figure 1) provides a landfill site for the communities residual waste which cannot be re-used or recycled in the South Wales catchment area. The waste contributed, restores and fills voids that were left by historical quarry activities, with a view to re-establishing the landscapes prior to these activities.



Figure 1. Bird's eye view showing the geographical location of Trecatti Landfill Site and its proximity to Merthyr Tydfil and other residential areas.

A stable non-reactive waste cell located in the southern area of the Trecatti site (see figure 2) opened in April 2015, accepting all forms of asbestos waste and asbestos contaminated soils.

To reduce the likelihood of airborne fibres, the stable non-reactive cell has been surrounded by a dust suppression system that will be operational during the period of asbestos acceptance. The asbestos waste will then be immediately covered with fines following placement.

We have submitted to Natural Resource Wales, the relevant cell design drawings and assessments for the request for the “variation and consolidation of permit to allow the acceptance of asbestos in a dedicated monocell” under application number EPR/RP3733/V008. The variation and consolidation of permit has been approved by NRW with improvement conditions to adhere to. This report has been written to fulfil the

requirement “the operator is to carry out background monitoring to establish baseline levels of airborne asbestos fibre levels prior to disposal of any asbestos waste”. As stated under table S1.3 Improvement programme requirements reference 3.



Figure 2. Aerial view of Trecatti Landfill Site showing the location of the stable non-reactive cell for asbestos. Please note that this image was used in the permit application, the asbestos cell has since been built.

2. Monitoring

Redhills (specialists in asbestos and environmental consultancy) were commissioned by Biffa Waste Services Ltd, Trecatti, to measure background air monitoring to the proposed asbestos cell before any tipping commenced. Monitoring was carried out on 22nd January 2015 at 4 sampling locations as shown by Figure.3 along the south bank of the asbestos cell. Over a period of 60 minutes, a *Flo180* flow metre was used to carry out monitoring at each location.

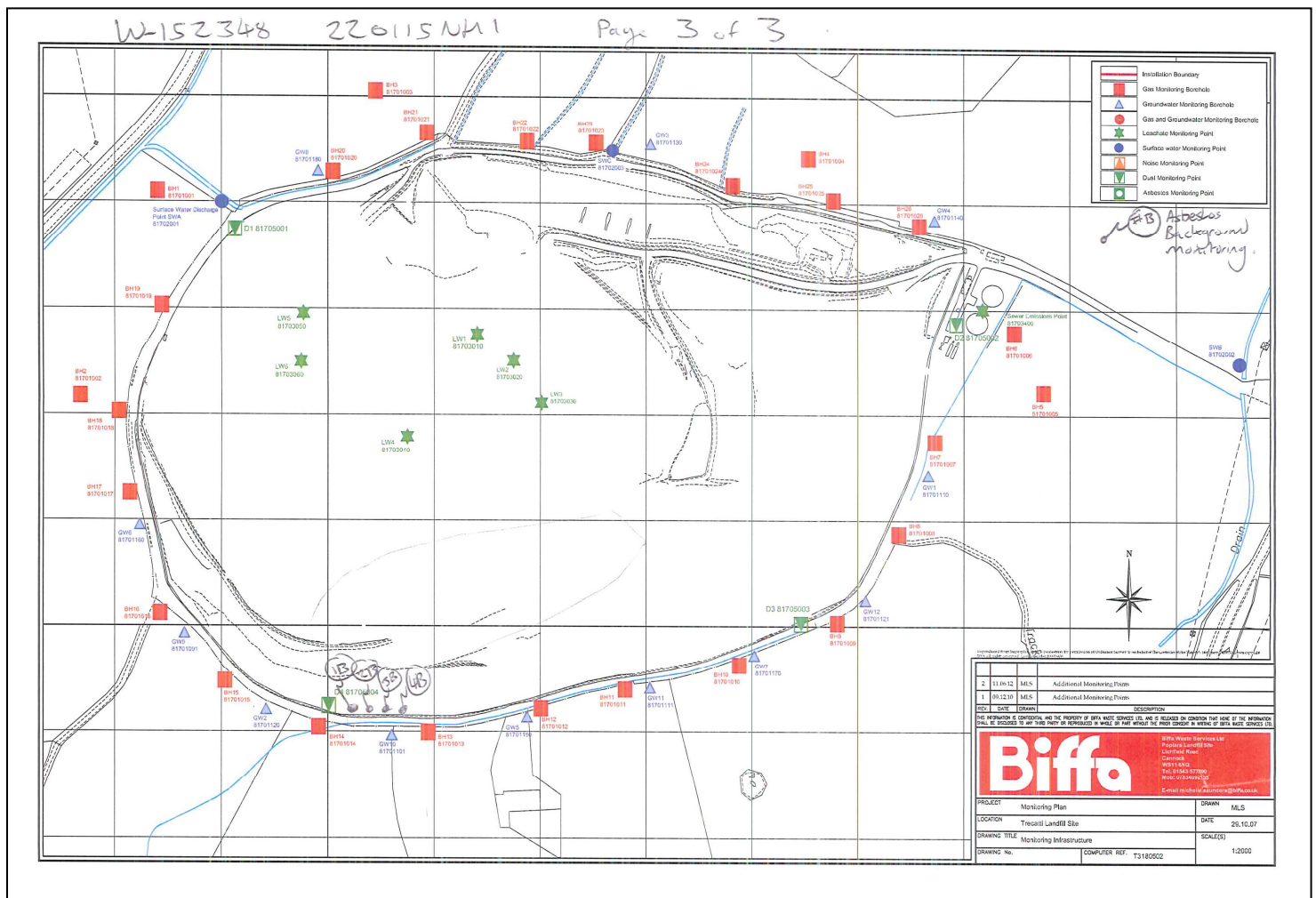


Figure 3. Monitoring plan of Trecatti landfill site showing sampling locations for asbestos background monitoring. Locations expressed as 1B, 2B, 3B and 4B. (Map taken from Redhills Air Fibre Concentration report, 2015)

3. Results

Table 1 shows a summary of the reported results (f/ml), fibres (N) and recorded flows (l/min) for the background air monitoring for sample locations 1B, 2B, 3B and 4B. The full and unabridged certificate of results can be found in the appendix of this report (Appendix 1). The findings of Table 1 show that there has been no asbestos fibres detected for the background air monitoring report for all 4 sample locations

Sample	Start		End		Fibres (N)	Reported Result (f/ml)
	Time	Flow (l/min)	Time	Flow (l/min)		
1B	15:33	8.0	16:33	8.0	0	0
2B	15:34	8.0	16:34	8.0	0	0
3B	15:35	8.0	16:35	8.0	0	0
4B	15:36	8.0	16:36	8.0	0	0

Table 1. Summary for Trecatti Landfill background air monitoring at the proposed Asbestos Cell. Results shown in fibres(N) and reported result (f/ml)

4. Conclusion

Prior to any disposal of asbestos waste, results from Redhills background air monitoring show that there was no detection of asbestos fibres at any of the monitoring points within the stable non-reactive cell. This therefore gives a 0 result for baseline levels to measure future monitoring results against. In line with the permit (EPR/RP3733) Redhills will continue to monitor asbestos fibres on a 6 monthly basis at 6 monitoring locations situated upwind and downwind of landfill activities 4 of the locations will be those used for the current dust monitoring regime, with 2 additional points. The plan of these locations has been attached to this submission and also fulfils IC 2 as stated in Table S1.3 of the permit.

Job No:

Cardiff

2	2	0	1	1	5	NH			1
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W	1	5	7	3	4	K	S	H	A
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redhills

Airborne Fibre Concentration Report

Band 5 observed: Yes

Measured graticule: 100 μm

Temp °C 3

Pressure mb 992.

Adjustment Required? ** Yes ☐ No ☒

[illegible]

Comments (outside the scope of UKAS accreditation):

No respirable fibres observed during sample analysis.

Signed on behalf of Analyst

Signature: _____

Print Name:

N. Honian

Drawing attached: Yes

No

Date:

2	2	0	1	1	5
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$$f/\text{ml} (f/\text{cm}^3) = 1000 \times N \times \text{Exposed filter diam.}^2 / V_n \times \text{Grat. diam.}^2$$

Test codes: B = Background, L = Leak Test, R = Reassurance, CL = Clearance, P = Personal, FB = Field Blank

**Accepted range 0-29°C, 950-1050mb. Relates to QSOP1 Appendix 3.

5. Appendix

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