



Matrix Environmental

AN ASSESSMENT OF THE LEVELS OF PM₁₀
AT THE
MILLTOWN COMPOST SITE,
MILLTOWN MOR, FETHARD,
Co. TIPPERARY.
JUNE 2017
W0270-01

For the Attention of:

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Ref: PM₁₀ Monitoring June 2017

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Executive Summary

In accordance with the requirements of Waste Licence No. W0270-01. Milltown Compost are required to monitor PM₁₀ adjacent to the biofilter unit located at the compost facility at Milltown Mor, Fethard, County Tipperary. Matrix Environmental was commissioned to undertake the sampling and analysis for 2015. The site was subsequently visited by an Environmental Consultant from Matrix Environmental on the 15th and 16th of June 2017.

The results obtained for this monitoring event indicate that the level of particulate matter less than 10µm (PM₁₀) measured at the site is well below the 24 hour guide limit value of 50µg/m³ for the monitoring period (No specific limit applies for the site, the stated limit is based on S.I. No. 271 of 2002 Air Quality Standards Regulations 2002)

This report is certified as accurate and representative of the sampling and associated analysis carried out.

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1.0 INTRODUCTION

In compliance with the requirements of their waste licence W0270-01. Milltown Compost is required to carry out PM₁₀ monitoring on a bi-annual basis.

Matrix Environmental was commissioned to undertake the sampling and reporting. An environmental consultant visited the site on the 15th and 16th of June 2016.

This report presents details of the sampling and analytical methodology carried out together with a broad interpretation of the results.

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2.0 METHODOLOGY

2.1 PM₁₀

Airborne particulate matter with an aerodynamic diameter equal or less than 10µm was monitored using a frmOmni Air Sampler. This sampler draws a measured volume of air through a chamber containing pre-conditioned and pre-weighed filters meeting the European Standard prEN12341, 1998 for PM₁₀ sampling.

2.2 Monitoring Location

Table 2.1 describes the PM₁₀ sampling locations.

TABLE 2.1: LOCATION OF PM₁₀ SAMPLING POSITIONS	
Sampling Station	Description
Location 1	Adjacent to biofilter unit entrance

2.3 Sampling

Sample air was drawn in from all directions onto a pre-conditioned and pre-weighed filter at a flow rate of 5 L/min. Monitoring was carried out over a 24 hour. The filter was then re-weighed and the weight gain determined. The result is expressed in ug/m³.

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3.0 RESULTS

Table 3.1 presents the results of the PM₁₀ monitoring for June 2017 carried out at the Milltown compost facility located at Milltown Mor, Fethard, Co. Tipperary.

TABLE 3.1: RESULTS OF PM₁₀ MONITORING			
Sampling Location	Date	Weight Gain (g)	Concentration (µg/m ³)
Location 1	15th/16th June	0.0152	2.11
24 hour limit value for PM₁₀ matter (S.I. No 271 of 2002)			50 µg/m³

4.0 CONCLUSION

The results for the PM₁₀ monitoring for June 2017 are presented in Table 3.1. In the absence of a specific limit in the waste licence the results from the site are compared to the daily directive limit as laid down in S.I. No. 271 of 2002 Air Quality Standards Regulations 2002 of 50µg/m³. The result obtained for this monitoring event at the Milltown compost facility is within this stated limit value.

Appendix 1

Sample Location Map

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