

QUARTER 1 2025

COMPLIANCE REPORT OF MONTHLY DUST
DEPOSITION MONITORING AT THE BORD NA
MÓNA DREHID WASTE MANAGEMENT
FACILITY, CO. KILDARE IN COMPLIANCE WITH
IED LICENCE REGISTER NO. W0201-03

Prepared by:

Donal Marron
Environmental Consultant

Signed: 

Monitoring Date:

Quarter 1 2025

Report Date:

14th April 2025

Marron Environmental

60 Seapoint,
Dunbur Road,
Wicklow,
Co. Wicklow

EXECUTIVE SUMMARY

In accordance with IED License Register No. W0201-03, Drehid Waste Management Facility is required to carry out monthly Depositional Dust monitoring at its site at Drehid / Killinagh, County Kildare. The monthly results are reported on a quarterly basis.

The dust gauges for the first quarter 2025 were installed by Marron Environmental staff on 16th December 2024 for 31 days, 16th January 2025 for 28 days and 13th February 2025 for 29 days (collected on 14th March 2025). The dust deposition samples were then returned to the ALT laboratory in Newbridge, Co. Kildare for analysis.

One internal location (D6) and four boundary locations (D1, D2, D5 and D8) were monitored for depositional dust in accordance with the Bergerhof method.

Dust Deposition Results:

The limit for dust deposition is given as 350 mg/m²/day as per schedule B1 of the IED License.

The results from all samples collected during the quarter ranged from 5 mg/m²/day to 435 mg/m²/day with all samples apart from one result (D6 in February) well below the IED License limit of 350 mg/m²/day.

The elevated level at D6 in February (435 mg/m²/day) was reported to the Agency as Incident No. INCI029753. The reason for the exceedance is unclear but may relate to bird droppings that discoloured the water in the container (see photo in Appendix 2). The result from D6 in March had reverted to a relatively low level of 43.1 mg/m²/day.

1.0 DUST DEPOSITION

1.1 Deposition Monitoring Locations

Dust deposition samples were taken at five locations within the site boundary. Table 1.1 below describes the sampling locations which are accurately marked on the environmental monitoring map locations attached in Appendix 1.

TABLE 1.1: LOCATION OF DUST MONITORING POSITIONS		
Location	Grid Co-Ordinate	Comments
D1	E=274916.30 N=232624.16	Northern Boundary
D2	E=275645.68 N=231405.06	Eastern Boundary
D5	E=273573.47 N=230885.35	Western Boundary
D6	E=273916.01 N=232659.89	North West of Site (inside the red line boundary)
D8	E=272958.41 N=228172.12	Main Entrance

2.0 Methodology

2.1 Dust Deposition

The Bergerhoff Dust Deposition Gauges used for this sampling survey consist of a plastic collecting vessel and a stand with a protective cage. Each vessel was placed in the metal basket which was positioned at a height of between 1.5 and 2 meters above ground level in accordance with the German Standard Method VDI 2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). Prior to sampling, the collecting vessels were carefully cleaned with laboratory detergent, rinsed with deionised water and allowed to dry. Following exposure, the sample bottles were annotated, photographed, securely capped and returned to the laboratory for analysis (see Appendix 2 for Photographs).

2.2 Analysis

The samples were submitted to Advanced Laboratory Testing Ltd. (ALT) for analysis. Subsequent analysis of all samples was carried out gravimetrically for dust. The results were expressed in mg/m²/day. The Environmental Chemistry Test Certificates are attached in Appendix 3.

3.0 Results

3.1 Weather Conditions

Weather data for the period of dust monitoring (January, February & March 2025) is presented in Table 3.1, below;

TABLE 3.1: Weather data from Met Éireann, Casement Aerodrome			
Date	Recorded Rainfall (mm)	Recorded Mean Temp (°C)	Mean Wind Speed. (Kt)
January 2025	79.1	4.4	9.4
February 2025	60.6	6.3	11.8
March 2025	32.8	8.0	8.4

3.2 Dust Deposition Results

Table 3.2: Results of Dust Deposition							
Monitoring Location	Deposition Rate (mg/m ² /day)						Deposition limit (mg/m ² /day)
	January 2025		February 2025		March 2025		
	16/12/24 – 16/01/25 (31 days)		16/01/25 – 13/02/25 (28 days)		13/02/25 – 14/03/25 (29 days)		
	Result	Observations	Result	Observations	Result	Observations	
D1	51	Little water, many particles, turbid water	57	Good water, some particles, twig	20.7	Quarter full of water, some fine particles	350
D2	37	Some water, many particles	28	Some water, relatively clear, particles, twigs	20.7	Half full of water, some fine particles, little bird faeces	350
D5	5	Little water, Clear	10	Some water, relatively Clear, few particles	11.1	One third full of water, some fine particles, insects	350
D6	14	Quarter full water, some particles	435	Small water, particles, murky – possible bird faeces	43.1	Less than a quarter full of water, some fine particles	350
D8	43	Quarter full water, many particles	49	Good water, relatively clear, many particles	84.3	Half full of water, some fine particles	350

4.0 Discussion

The results of the 3 no. dust deposition surveys which were carried out in January, February and March 2025 at the Drehid Waste Management Facility are presented in Table 3.2.

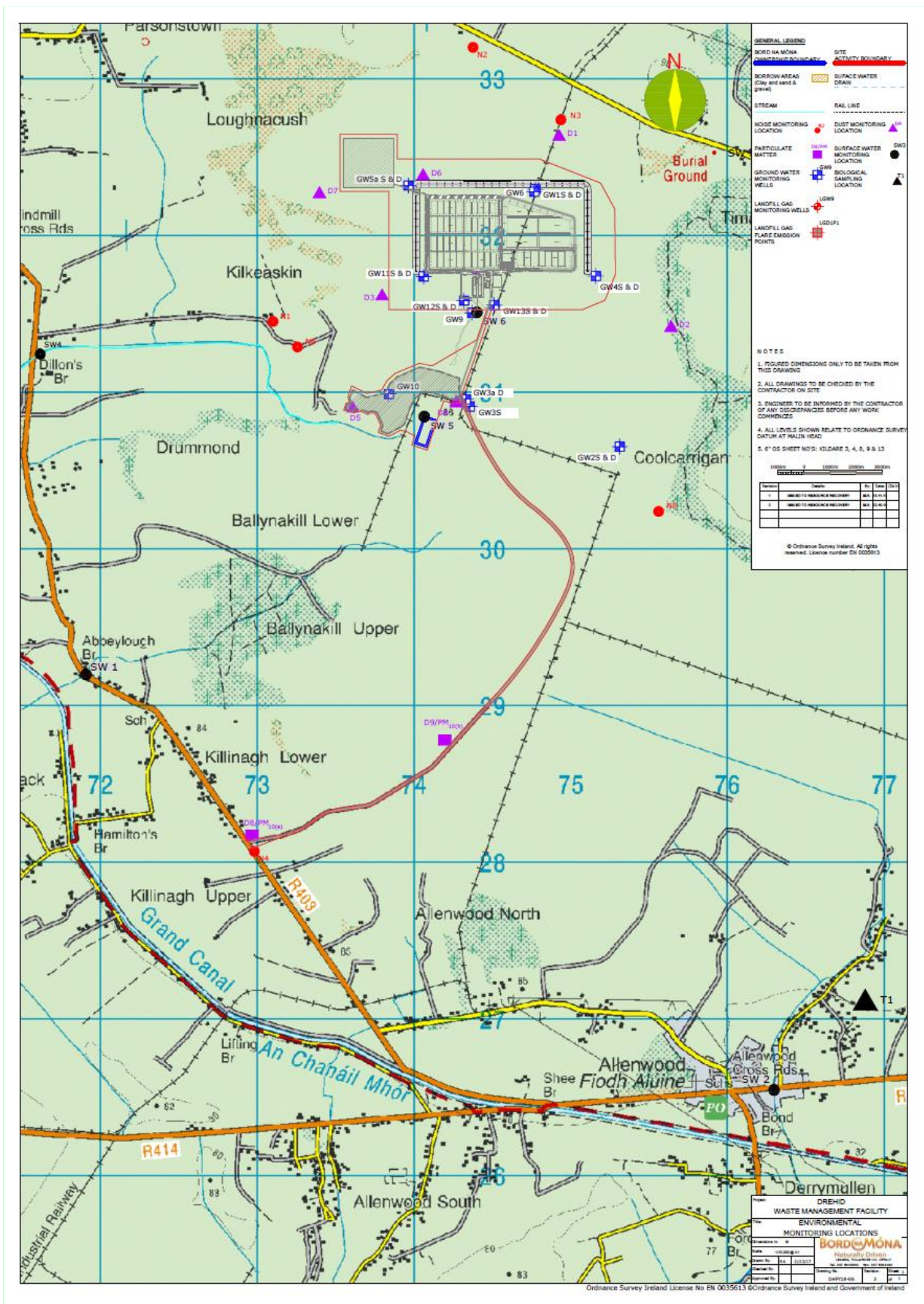
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APPENDIX I

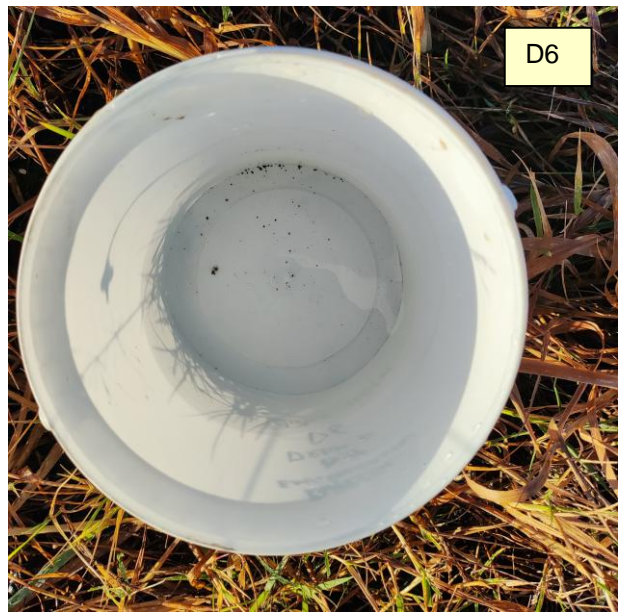
Monitoring Locations



APPENDIX 2

Photographs

January 2025





March 2025



Appendix 3
Laboratory Results
Incident Report

Client: Drihid Waste Management Order Number: 3127097
Primary Contact:
Address: Drihid Waste Management, Drihid, Co Kildare

Sample Number: ALT ID 4482304 **Date Received:** 17/01/2025 **Date Tested:** 20/01/2025
Matrix Classification: Others: Others
Sample Description: D.1 (16/12/24 16/01/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	51	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4482305 **Date Received:** 17/01/2025 **Date Tested:** 20/01/2025
Matrix Classification: Others: Others
Sample Description: D.2 (16/12/24 16/01/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	37	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4482306 **Date Received:** 17/01/2025 **Date Tested:** 20/01/2025
Matrix Classification: Others: Others
Sample Description: D5 (16/12/24 16/01/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	5	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4482307 **Date Received:** 17/01/2025 **Date Tested:** 20/01/2025
Matrix Classification: Others: Others
Sample Description: D.6 (16/12/24 16/01/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	14	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4482308 **Date Received:** 17/01/2025 **Date Tested:** 20/01/2025
Matrix Classification: Others: Others
Sample Description: D.8 (16/12/24 16/01/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	43	mg/m2/day	ECTM014	In-House

The results in this report were authorised by:



mariana cristina ciociltea
Chemistry Laboratory Supervisor

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
 Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Report Status: **Replacement Report**
Date of Issue: **31-Jan-2025**
Report Number: **1928918**
Project: **1-250117-05911**
Page 2 of 2
Order Number: 3127097

Client: Drihid Waste Management

Disclaimer(s)

Results in this report relate only to the items tested as received
Reports may not be reproduced except in full, without the written approval of ALT-MXNS
Results reported as cfu/cm² are calculated based on information supplied by the relevant customer regarding the specific area swabbed
An * beside the method or lack of INAB symbol signifies that ALT-MXNS are not INAB accredited for this method
Samples are retained in refrigerated storage post-analysis for 10 days
Unless otherwise stated as a Test Certificate comment, samples were received in satisfactory condition
Sampling, including the date and time that swabs are taken at the source and area swabbed, are outside the activities of ALT-MXNS and the scope of accreditation
Microbiology environmental swab samples should ideally be tested within 24 hours of sampling but can be extended to 48 hours in line with ISO18593
If the date and time that swabs and samples are taken are not referenced when submitting paperwork, ALT-MxNS will not be able to determine if testing has been carried out in the required window nor the effect on results
For where the Test results is <10, it means that no colonies/microbial growth ("No Growth": was observed at the lowest/first dilution (1 in 10 dilution) of the sample. Similarly, <1cfu/ml means that no colonies/microbial growth ("No Growth") was observed for where the liquid samples were not diluted (direct inoculation)

Replacement Report Detail(s)

This report replaces Report Number:1928902
Replacement report reason:Typographical error

The results in this report were authorised by:



mariana cristina ciociltea
Chemistry Laboratory Supervisor

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Client: Drihid Waste Management Order Number: 3127097
Primary Contact:
Address: Drihid Waste Management, Drihid, Co Kildare

Sample Number: ALT ID 4506613 **Date Received:** 14/02/2025 **Date Tested:** 18/02/2025

Matrix Classification: Other waters

Sample Description: D.1 (16/01/24 13/02/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	57	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4506614 **Date Received:** 14/02/2025 **Date Tested:** 18/02/2025

Matrix Classification: Other waters

Sample Description: D.2 (16/01/24 13/02/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	28	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4506615 **Date Received:** 14/02/2025 **Date Tested:** 18/02/2025

Matrix Classification: Other waters

Sample Description: D.5 (16/01/24 13/02/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	10	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4506616 **Date Received:** 14/02/2025 **Date Tested:** 18/02/2025

Matrix Classification: Other waters

Sample Description: D.6 (16/01/24 13/02/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	435	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4506617 **Date Received:** 14/02/2025 **Date Tested:** 18/02/2025

Matrix Classification: Other waters

Sample Description: D.8 (16/01/24 13/02/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	49	mg/m2/day	ECTM014	In-House

The results in this report were authorised by:



Kanwal Shafique
Lab Technician

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
 Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Client: **Drihid Waste Management**

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The results in this report were authorised by:



Kanwal Shafique
Lab Technician

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Client: Drihid Waste Management Order Number: 3127097
Primary Contact:
Address: Drihid Waste Management, Drihid, Co Kildare

Sample Number: ALT ID 4533638 **Date Received:** 14/03/2025 **Date Tested:** 31/03/2025
Matrix Classification: Other waters
Sample Description: D.1 (13/02/25 - 14/03/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	20.7	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4533639 **Date Received:** 14/03/2025 **Date Tested:** 31/03/2025
Matrix Classification: Other waters
Sample Description: D.2 (13/02/25 - 14/03/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	20.7	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4533640 **Date Received:** 14/03/2025 **Date Tested:** 31/03/2025
Matrix Classification: Other waters
Sample Description: D.5 (13/02/25 - 14/03/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	11.1	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4533641 **Date Received:** 14/03/2025 **Date Tested:** 31/03/2025
Matrix Classification: Other waters
Sample Description: D.6 (13/02/25 - 14/03/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	43.1	mg/m2/day	ECTM014	In-House

Sample Number: ALT ID 4533642 **Date Received:** 14/03/2025 **Date Tested:** 31/03/2025
Matrix Classification: Other waters
Sample Description: D.8 (13/02/25 - 14/03/25)

Test	Result	Unit(s)	Method	Technique
Dust deposition	84.3	mg/m2/day	ECTM014	In-House

The results in this report were authorised by:



mariana cristina ciociltea
Chemistry Laboratory Supervisor

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
 Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Report Status: **Final Report**
Date of Issue: **31-Mar-2025**
Report Number: **1949083**
Project: **1-250314-05082**
Page 2 of 2
Order Number: 3127097

Client: Drihid Waste Management

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The results in this report were authorised by:



mariana cristina ciociltea
Chemistry Laboratory Supervisor

Samples tested at: Mérieux NutriSciences, Newbridge Enterprise Park,
Athgarvan Road, Newbridge, County Kildare, W12W951, Ireland.

Incident INCI029753 for Drehid Waste Management Facility Licence (W0201-03)

Notification No: INCI029753

Submitted: 04/03/2025 13:05

Licensee Details

Organisation:

Bord na Mona Public Limited Company

Licence Name:

Drehid Waste Management Facility

Reg No:

W0201-03

Site Address:

Timahoe West, Coolcarrigan, Killinagh Upper, Killinagh Lower, Drummond, Drehid, Kilkeaskin, Loughnacush and Parsonstown, Naas, Kildare, W91 RC82

Notifier Details

Name:

Phoebe Dillane

Address:

Drehid Facility Killinagh Upper, Kildare, Ireland

Phone:

045 439464

Email:

phoebe.dillane@bnm.ie

Details

Description of Incident:

Exceedance of the Dust limit of 350 mg/m²/day at 1 no. monitoring locations (D6) in January/February 2025. A result of 435 mg/m²/day was recorded at D6, all other monitoring locations were well below the licence limit of 350 mg/m²/day (10-57 mg/m²/day). This exceedance is currently being investigated by the laboratory and photographs of the dust jars have been requested from the Environmental Consultant who removed the jars for analysis.

Incident Category:

Category 1

Approximate Start of Incident:

16/01/2025 12:00

First Noticed:

04/03/2025 10:00

Still Ongoing:

No

End Date:

13/02/2025 12:00

New or Recurring Incident:

New

Incident Nature:

Ambient ELV breach

Impact of Incident on Environment:

Awaiting photographs of the jar from the consultant and result being checked by the laboratory

Uncontrolled Release to Receptors:

Air

Details of any Vulnerable Receptors:

None

Likely Cause:

Other (add details)

Awaiting photographs, possible plant or insect matter

Incident Location

Licensed Discharge Point: No

Location Description: Dust monitoring location D6

Emission Parameter Results

Communication

EPA Informed by Telephone: No

EPA Informed Date:

EPA Informed Staff Member:

EPA Informed Contact Details:

Other Communications:

Additional Details

Activity in Process at time of incident:

Normal onsite activity

Corrective Actions Taken:

Action	Name	Date
Photographs requested of the jar from the consultant and lab requested to check the result		04/03/2025 10:00

Preventive Actions to be Taken:

Action	Target Date
Awaiting outcome of investigation	06/03/2025 00:00

Likelihood of Recurrence: Low

Other Relevant Information

