



## CERTIFICATE OF ANALYSIS

Work Order	: EN2403589	Page	: 1 of 2
Client	: GOLDER ASSOCIATES	Laboratory	: Environmental Division Newcastle
Contact	: IVAN WARD	Contact	: Josh Alexander
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Telephone	: ----	Telephone	: +61 2 4014 2500
Project	: 117623088	Date Samples Received	: 22-Apr-2024 17:00
Order number	: TBA	Date Analysis Commenced	: 06-May-2024
C-O-C number	: ----	Issue Date	: 07-May-2024 13:34
Sampler	: Grace Bendall-Pease		
Site	: Wetherill Park		
Quote number	: EN/000		
No. of samples received	: 4		
No. of samples analysed	: 4		



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Shane Merrell	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
 LOR = Limit of reporting  
 ^ = This result is computed from individual analyte detections at or above the level of reporting  
 ø = ALS is not NATA accredited for these tests.  
 ~ = Indicates an estimated value.

- Dust analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in deposition units e.g., g/m<sup>2</sup>.mth where the sampling procedure is not NATA accredited. ALS Mudgee laboratory is NATA accredited for dust sampling, therefore ALS Mudgee reported deposition units are accredited.
- The dust gauges for all samples were full when received by the laboratory. They may have overflowed in the field. Results for these gauges are thus reported on an 'as received' basis.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.

## Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**  
 (Matrix: AIR)

Sample ID

				DDG1	DDG2	DDG3	DDG4	----
				21/03/24 - 22/04/24	21/03/24 - 22/04/24	21/03/24 - 22/04/24	21/03/24 - 22/04/24	-----
Sampling date / time				22-Apr-2024 00:00	22-Apr-2024 00:00	22-Apr-2024 00:00	22-Apr-2024 00:00	----
Compound	CAS Number	LOR	Unit	EN2403589-001	EN2403589-002	EN2403589-003	EN2403589-004	-----
				Result	Result	Result	Result	----
<b>EA120: Ash Content</b>								
Ash Content	----	0.1	g/m <sup>2</sup> .month	1.5	0.7	0.9	1.0	----
Ash Content (mg)	----	2	mg	29	14	17	18	----
<b>EA125: Combustible Matter</b>								
Combustible Matter	----	0.1	g/m <sup>2</sup> .month	0.4	0.8	0.6	1.0	----
Combustible Matter (mg)	----	2	mg	7	15	11	19	----
<b>EA141: Total Insoluble Matter</b>								
Total Insoluble Matter	----	0.1	g/m <sup>2</sup> .month	1.9	1.5	1.5	2.0	----
Total Insoluble Matter (mg)	----	2	mg	36	29	28	37	----