

CERTIFICATE OF ANALYSIS

Work Order : EW2102174 Page : 1 of 2

Client : WOLLONGONG CITY COUNCIL Laboratory : Environmental Division NSW South Coast

Contact : DELLA KUTZNER Contact : Aneta Prosaroski

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Australia NSW Australia

Telephone : +61 02 4227 7111 Telephone 02 42253125

Project : Whytes Gully PM10 and TSP Date Samples Received : 13-May-2021 16:27

: 1021509

WOLLONGONG NSW, AUSTRALIA 2500

Date Analysis Commenced : 17-May-2021

C-O-C number

Issue Date

: 24-May-2021 16:25

Sampler Site

Order number

· Robert DaLio

: Monthy HVAS & Dust

: WO/005/18 TENDER Quote number

No. of samples received : 4 No. of samples analysed : 4

Accreditation No. 825 Accredited for compliance with ISO/IEC 17025 - Testing

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

Zoran Grozdanovski Newcastle - Inorganics, Mayfield West, NSW Laboratory Operator

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Project : Whytes Gully PM10 and TSP

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 Contact 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.
- EA143-MF: Sample 002 was recieved with significant damage. The result will bias low and should be scrutinised accordingly.
- Analytical work for this work order will be conducted at ALS Newcastle.
- NATA accreditation is not held for results reported in µg/m³. Concentration in µg/m³ is calculated from air volume data provided by the client.

Analytical Results

| Sub-Matrix: FILTER (Matrix: AIR) | | | Sample ID | Glengarry Cottage PM10 9915692 | Glengarry Cottage TSP 9915683 | Landfill PM10 9915690 | Landfill TSP 9915691 | |
|--|----------------------|-----|-----------|--------------------------------------|----------------------------------|--------------------------|-------------------------|--|
| | Sampling date / time | | | | 10-May-2021 00:00 | 11-May-2021 00:00 | 11-May-2021 00:00 | |
| Compound | CAS Number | LOR | Unit | EW2102174-001 | EW2102174-002 | EW2102174-003 | EW2102174-004 | |
| | | | | Result | Result | Result | Result | |
| EA143: Particulates in Air - HVAFs | | | | | | | | |
| Ø Total Suspended Particulates | | 0.1 | μg/m³ | | 45.1 | | 9.9 | |
| Ø PM10 | | 0.1 | μg/m³ | 19.5 | | 6.1 | | |
| Total Suspended Particulates (mass per | | 0.1 | mg/filter | | 68.0 | | 15.1 | |
| filter) | | | | | | | | |
| PM10 (mass per filter) | | 0.1 | mg/filter | 29.0 | | 9.2 | | |

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(AIR) EA143: Particulates in Air - HVAFs

