

## CERTIFICATE OF ANALYSIS

**Work Order** : **EW2002344**  
**Client** : **WOLLONGONG CITY COUNCIL**  
**Contact** : DELLA KUTZNER  
**Address** : 41 BURELLI STREET  
                   WOLLONGONG NSW, AUSTRALIA 2500  
  
**Telephone** : +61 02 4227 7111  
**Project** : Whytes Gully PM10 and TSP  
**Order number** : 1011047  
**C-O-C number** : ----  
**Sampler** : ----  
**Site** : Monthly HVAS & Dust  
**Quote number** : WO/005/18 TENDER  
**No. of samples received** : 4  
**No. of samples analysed** : 4

**Page** : 1 of 2  
**Laboratory** : Environmental Division NSW South Coast  
**Contact** : Glenn Davies  
**Address** : 1/19 Ralph Black Dr, North Wollongong 2500  
                   4/13 Geary Pl, North Nowra 2541  
                   Australia NSW Australia  
**Telephone** : 02 42253125  
**Date Samples Received** : 14-May-2020 12:04  
**Date Analysis Commenced** : 18-May-2020  
**Issue Date** : 25-May-2020 11:33



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. 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Joel Mullarvey	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 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.

- Analytical work for this work order will be conducted at ALS Newcastle.
- NATA accreditation is not held for results reported in  $\mu\text{g}/\text{m}^3$ . Air volume data was provided by the client.

## Analytical Results

Sub-Matrix: FILTER  
 (Matrix: AIR)

Client sample ID

				Glengarry Cottage PM10 9778848	Glengarry Cottage TSP 9778847	Landfill PM10 9778850	Landfill TSP 9778849	----
Client sampling date / time				11-May-2020 00:00	11-May-2020 00:00	12-May-2020 00:00	12-May-2020 00:00	----
Compound	CAS Number	LOR	Unit	EW2002344-001	EW2002344-002	EW2002344-003	EW2002344-004	-----
				Result	Result	Result	Result	----
<b>EA143: Particulates in Air - HVAFs</b>								
ø Total Suspended Particulates	----	0.1	$\mu\text{g}/\text{m}^3$	----	24.9	----	19.8	----
ø PM10	----	0.1	$\mu\text{g}/\text{m}^3$	8.6	----	9.9	----	----
Total Suspended Particulates (mass per filter)	----	0.1	mg/filter	----	39.3	----	30.6	----
PM10 (mass per filter)	----	0.1	mg/filter	13.4	----	14.8	----	----