ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EW2001493**	Page	: 1 of 2
Client	: **WOLLONGONG CITY COUNCIL**	Laboratory	: Environmental Division NSW South Coast
Contact	: DELLA KUTZNER	Contact	: Glenn Davies
Address	: 41 BURELLI STREET WOLLONGONG NSW, AUSTRALIA 2500	Address	: 1/19 Ralph Black Dr, North Wollongong 2500 4/13 Geary Pl, North Nowra 2541 Australia NSW Australia
Telephone	: +61 02 4227 7111	Telephone	: 02 42253125
Project	: Whytes Gully PM10 and TSP	Date Samples Received	: 18-Mar-2020 15:30
Order number	: 1011047	Date Analysis Commenced	: 26-Mar-2020
C-O-C number	: ----	Issue Date	: 27-Mar-2020 12:41
Sampler	: Arrian Zautsen, Glenn Davies		
Site	: Monthy HVAS & Dust		
Quote number	: WO/005/18 TENDER		
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. 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*
Jennifer Targett	Quality Coordinator	Newcastle - Inorganics, Mayfield West, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by 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 Newcaste.**
- NATA accreditation is not held for results reported in µg/m³. Air volume data was provided by the client.

Analytical Results

Sub-Matrix: **FILTER** (Matrix: **AIR**)				Client sample ID	**Glengarry Cottage PM10 9676255**	**Glengarry Cottage TSP 9676256**	**Landfill PM10 9676257**	**Landfill TSP 9676258**	**----**
				Client sampling date / time	18-Mar-2020 00:00	18-Mar-2020 00:00	18-Mar-2020 00:00	18-Mar-2020 00:00	----
Compound	CAS Number	LOR	Unit		**EW2001493-001**	**EW2001493-002**	**EW2001493-003**	**EW2001493-004**	**--------**
					Result	Result	Result	Result	----
EA143: Particulates in Air - HVAFs									
ø **Total Suspended Particulates**	----	0.1	µg/m³		**----**	**41.1**	**----**	**46.7**	**----**
ø **PM10**	----	0.1	µg/m³		**15.8**	**----**	**19.5**	**----**	**----**
Total Suspended Particulates (mass per filter)	----	0.1	mg/filter		**----**	**63.1**	**----**	**71.4**	**----**
PM10 (mass per filter)	----	0.1	mg/filter		**23.8**	**----**	**29.2**	**----**	**----**