

CERTIFICATE OF ANALYSIS

Work Order : WN1903735

: MOLYCOP WARATAH (COMMONWEALTH STEEL CO)

Contact : Lisa Clarke

Address : PO BOX 14

WARATAH NSW, AUSTRALIA 2298

Telephone

Client

Project : Monthly Drains Order number : PO0013311

C-O-C number Sampler Site

Quote number : WN/104/16

No. of samples received : 2 No. of samples analysed : 2 Page : 1 of 2

> Laboratory : ALS Water - Newcastle

Contact : Andrea Swan

Address · 5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone : +61 2 4014 2500 Date Samples Received : 04-Jun-2019 14:35

Date Analysis Commenced : 04-Jun-2019

Issue Date : 11-Jun-2019 17:36



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

Neil Martin Team Leader - Chemistry Chemistry, Newcastle West, NSW Page : 2 of 2 Work Order : WN1903735

Client : MOLYCOP WARATAH (COMMONWEALTH STEEL CO)

Project : Monthly Drains

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 Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			6117 - North Drain			
Client sampling date / time				04-Jun-2019 00:00	04-Jun-2019 00:00			
Client sampling date / time				04-3011-2019 00.00	04-3011-2019 00.00			
Compound	CAS Number	LOR	Unit	WN1903735-001	WN1903735-002			
				Result	Result			
EP021: Total Oil and Grease								
Total Oil and Grease		2	mg/L	<2	4			
EP026SP.WN: Chemical Oxygen Demand (COD)								
Chemical Oxygen Demand		10	mg/L	<10	19			

