

## CERTIFICATE OF ANALYSIS

<b>Work Order</b>	: <b>WN1907730</b>	Page	: 1 of 2
<b>Client</b>	: <b>WARRUMBUNGLE SHIRE COUNCIL</b>	Laboratory	: ALS Water - Newcastle
<b>Contact</b>		Contact	: Andrea Swan
<b>Address</b>	: 59 Binnia Street COOLAH NSW 2843	Address	: 5/585 Maitland Road Newcastle West NSW Australia 2304
Telephone	: ----	Telephone	: +61 2 4014 2500
Project	: ----	Date Samples Received	: 09-Oct-2019 09:10
Order number	: 19588	Date Analysis Commenced	: 09-Oct-2019
C-O-C number	: ----	Issue Date	: 16-Oct-2019 16:01
Sampler			
Site	: ----		
Quote number	: WN Blanket Quote		
No. of samples received	: 1		
No. of samples analysed	: 1		



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>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Gregory Towers	Technical Officer	Chemistry, Newcastle West, NSW
Neil Martin	Team Leader - Chemistry	Chemistry, Newcastle 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.

- EK062A- Total Nitrogen, EK067A- Total Phosphorus conducted by ALS Sydney, NATA accreditation no. 825, site no 10911.
- EP021: Oil and Grease LOR has been raised due to insufficient sample volume provided for standard analysis. 1L is required for standard analysis.

## Analytical Results

Sub-Matrix: **WATER**  
 (Matrix: **WATER**)

Client sample ID

				Effluent	----	----	----	----
Client sampling date / time				09-Oct-2019 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	WN1907730-001	-----	-----	-----	-----
				Result	----	----	----	----
<b>EA005: pH</b>								
pH Value	----	0.01	pH Unit	7.62	----	----	----	----
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>								
Suspended Solids (SS)	----	1	mg/L	4	----	----	----	----
<b>EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser</b>								
^ Total Nitrogen as N	----	0.1	mg/L	27.1	----	----	----	----
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>								
Total Phosphorus as P	----	0.01	mg/L	7.91	----	----	----	----
<b>EP021: Total Oil and Grease</b>								
Total Oil and Grease	----	2	mg/L	6	----	----	----	----
<b>EP030.WN: Biochemical Oxygen Demand (BOD)</b>								
Biochemical Oxygen Demand	----	2	mg/L	48	----	----	----	----