



## CERTIFICATE OF ANALYSIS

**Work Order** : **EW2500798**  
**Client** : **WINGECARRIBEE SHIRE COUNCIL**  
**Contact** : Resource  
**Address** : PO BOX 141  
MOSSVALE NSW  
AUSTRALIA  
**Telephone** : ----  
**Project** : Welby Quarterly Surface Water  
**Order number** : 00268671  
**C-O-C number** : ----  
**Sampler** : Michael Santos  
**Site** : ----  
**Quote number** : EW24WINSHI0001  
**No. of samples received** : 8  
**No. of samples analysed** : 8

**Page** : 1 of 4  
**Laboratory** : Environmental Division NSW South Coast  
**Contact** : Aneta Prosaroski  
**Address** : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia  
**Telephone** : +61 2 4225 3125  
**Date Samples Received** : 14-Feb-2025 16:05  
**Date Analysis Commenced** : 14-Feb-2025  
**Issue Date** : 24-Feb-2025 17:44



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
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Robert DaLio	Sampler	Laboratory - Wollongong, 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 Contract 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.

- EP030: BOD LCS Low Recovery <170 mg/L: LCS recovery below recommended APHA limits of the certified +/-30.5 mg/L; BOD results may bias low.
- pH performed by ALS Wollongong via in-house method EA005FD and EN67 PK.
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- ORP (Oxidation Reduction Potential) performed by ALS Wollongong via in-house method EA075FD and EN67 PK.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.6 Rivers and Streams.
- Dissolved oxygen (DO) performed by ALS Wollongong via in-house method EP025FD and EN67 PK.
- All field analysis performed by ALS Wollongong were completed at the time of sampling.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.4 Lakes and Reservoirs



## Analytical Results

Sub-Matrix: WATER  
 (Matrix: WATER)

Sample ID

				Point 10 WELMSW-01	Point 11 WELMSW-02	Point 12 DAM 1	Point 13 DAM 2	Point 14 DAM 3
Sampling date / time				14-Feb-2025 09:54	14-Feb-2025 09:35	14-Feb-2025 10:55	14-Feb-2025 10:30	14-Feb-2025 10:19
Compound	CAS Number	LOR	Unit	EW2500798-001	EW2500798-002	EW2500798-003	EW2500798-004	EW2500798-005
				Result	Result	Result	Result	Result
<b>EA005FD: Field pH</b>								
pH	----	0.1	pH Unit	7.8	7.4	8.0	7.8	7.6
<b>EA010FD: Field Conductivity</b>								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	442	416	550	170	1530
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>								
Suspended Solids (SS)	----	5	mg/L	<5	<5	20	<5	<5
<b>EK055G: Ammonia as N by Discrete Analyser</b>								
Ammonia as N	7664-41-7	0.01	mg/L	0.08	0.09	0.10	<0.01	0.07
<b>EP025FD: Field Dissolved Oxygen</b>								
Dissolved Oxygen	----	0.01	mg/L	8.05	8.22	3.88	7.13	2.21
<b>EP030: Biochemical Oxygen Demand (BOD)</b>								
Biochemical Oxygen Demand	----	2	mg/L	<2	<2	<2	<2	<2



## Analytical Results

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

Sample ID

				Point 15 DAM 4	Point 16 DAM 5	Point 17 DAM 6	----	----
Sampling date / time				14-Feb-2025 10:11	14-Feb-2025 10:08	14-Feb-2025 11:08	----	----
Compound	CAS Number	LOR	Unit	EW2500798-006	EW2500798-007	EW2500798-008	-----	-----
				Result	Result	Result	----	----
<b>EA005FD: Field pH</b>								
pH	----	0.1	pH Unit	----	----	7.9	----	----
<b>EA010FD: Field Conductivity</b>								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	----	1100	----	----
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>								
Suspended Solids (SS)	----	5	mg/L	----	----	26	----	----
<b>EK055G: Ammonia as N by Discrete Analyser</b>								
Ammonia as N	7664-41-7	0.01	mg/L	----	----	0.58	----	----
<b>EN67 PK: Field Tests</b>								
Field Observations	----	0.01	--	DRY	NO ACCESS	----	----	----
<b>EP025FD: Field Dissolved Oxygen</b>								
Dissolved Oxygen	----	0.01	mg/L	----	----	4.42	----	----
<b>EP030: Biochemical Oxygen Demand (BOD)</b>								
Biochemical Oxygen Demand	----	2	mg/L	----	----	3	----	----

## Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EP030: Biochemical Oxygen Demand (BOD)

(WATER) EK055G: Ammonia as N by Discrete Analyser

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C