

CERTIFICATE OF ANALYSIS

Work Order	: CA2400957	Page	: 1 of 3		
Client	: Department of Planning and Environment (DPIE)	Laboratory	ALS Water Resources Group		
Contact	: Mark Bradshaw	Contact	: Client Services		
Address	: 21 Harris Street Tumut NSW	Address	: 2/33 Couranga Cr Hume ACT Australia 2620		
	2720 NSW 2720				
Telephone	:	Telephone	: +61 2 6202 5404		
Project	: Cootamundra STP	Date Samples Received	: 09-Feb-2024 09:05		
Order number	:	Date Analysis Commenced	: 21-Feb-2024		
C-O-C number	:	Issue Date	: 29-Feb-2024 13:40		
Sampler	: Mark Bradshaw		Hac-MRA NAIA		
Site	:				
Quote number	:		Apprediction No. 002		
No. of samples received	: 3		Accredited for compliance with		
No. of samples analysed	: 3		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
Amanda Gonzalez	Laboratory Technician	Inorganics, Hume, ACT
Clare Kennedy	Analyst	Inorganics, Hume, ACT
Titus Vimalasiri	Metals Teamleader	Inorganics, Hume, ACT



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.

- For samples collected by ALS WRG, sampling was carried out in accordance with Procedure EN67
- Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.



Analytical Results

Sub-Matrix: WATER Sample ID (Matrix: WATER)				Cootamundra STP - CS1 Clarifier Sewer Sample	Cootamundra STP - CS2 Maturation Ponds	Cootamundra STP - CS3 Final Effluent Discharge			
Sampling date / time				07-Feb-2024 00:00	07-Feb-2024 00:00	07-Feb-2024 00:00			
Compound	CAS Number	LOR	Unit	CA2400957-001	CA2400957-002	CA2400957-003			
				Result	Result	Result			
EA005CA: pH									
рН		0.01	pH Unit	8.01	8.05	8.10			
EA010CA: Conductivity									
Electrical Conductivity @ 25°C		2	µS/cm	1670	1450	1400			
ED037CA: Alkalinity									
Hydroxide Alkalinity as CaCO3	DMO-210-001	0.1	mg/L	<0.1	<0.1	<0.1			
Carbonate Alkalinity as CaCO3	3812-32-6	0.1	mg/L	<0.1	<0.1	<0.1			
Bicarbonate Alkalinity as CaCO3	71-52-3	0.1	mg/L	309	190	114			
Total Alkalinity as CaCO3		1	mg/L	309	190	114			
EA025CA: Suspended Solids									
Suspended Solids (SS)		2	mg/L	11	14	22			
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand		2	mg/L	<2	3	4			
EK055CA: Ammonia as N									
Ammonia as N	7664-41-7	0.1	mg/L N	14.1	3.8	0.7			
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N		0.05	mg/L N	0.17	1.19	0.64			
EK060CA: Organic Nitrogen as N									
Organic Nitrogen as N		0.05	mg/L N	1.03	1.65	1.66			
EK062CA: Total Nitrogen as N									
Total Nitrogen as N		0.05	mg/L N	15.3	6.64	3.00			
EK067CA: Total Phosphorus as P									
Total Phosphorus as P		0.01	mg/L P	0.23	0.08	0.13			
EA006CA: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio		0.01	-	2.78	3.12	3.44			