

# **CERTIFICATE OF ANALYSIS**

Work Order : EW2304294

Client : Ingenia Holidays Merry Beach

Contact : Gray Taylor

Address : Merry Beach Road,

Kioloa 2539

Telephone : 02 9476 9999

Project : Merry Beach Monitoring - September 2023

Order number : P2108127

C-O-C number : ----

Sampler : Client - Peter Young

Site : Merry Beach

Quote number : --
No. of samples received : 3

No. of samples analysed : 3

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Laboratory : Environmental Division NSW South Coast

Contact : Glenn Davies

Address : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia

Telephone : +61 2 4225 3125

Date Samples Received : 27-Sep-2023 15:00

Date Analysis Commenced : 28-Sep-2023

Issue Date : 05-Oct-2023 21:11



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  Sydney Inorganics, Smithfield, NSW		
Ankit Joshi	Senior Chemist - Inorganics			
Geetha Ramasundara	Chemistry Teamleader	Inorganics, Hume, ACT		
Somlok Chai	Microbiologist	Sydney Microbiology, Smithfield, NSW		

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## **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.
- Analytical work for this work order will be conducted at ALS Sydney.
- MF = membrane filtration
- CFU = colony forming unit
- MW006 is ALS's internal code and is equivalent to AS4276.5.
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range of 10 100cfu.

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# Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	884/Eff1	884/Eff2	Influent				
Sampling date / time			27-Sep-2023 00:00	27-Sep-2023 00:00	27-Sep-2023 00:00					
Compound	CAS Number	LOR	Unit	EW2304294-001	EW2304294-002	EW2304294-003				
				Result	Result	Result				
EA005P: pH by PC Titrator										
pH Value		0.01	pH Unit	7.81	8.04	8.36				
EA025: Total Suspended Solids drie	ed at 104 ± 2°C									
Suspended Solids (SS)		5	mg/L	<5	<5	238				
EK055G: Ammonia as N by Discrete Analyser										
Ammonia as N	7664-41-7	0.01	mg/L	0.39		132				
EK059G: Nitrite plus Nitrate as N (N	EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N		0.01	mg/L	24.9		0.21				
EK061G: Total Kjeldahl Nitrogen By	Discrete Analyser									
Total Kjeldahl Nitrogen as N		0.1	mg/L	5.0		155				
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser										
^ Total Nitrogen as N		0.1	mg/L	29.9		155				
EK067G: Total Phosphorus as P by	Discrete Analyser									
Total Phosphorus as P		0.01	mg/L	1.72		17.4				
EP030: Biochemical Oxygen Deman	d (BOD)									
Biochemical Oxygen Demand		2	mg/L	<2		204				
MW006: Faecal Coliforms & E.coli b	y MF									
Faecal Coliforms		1	CFU/100mL	<1		15000000				
Escherichia coli		1	CFU/100mL		<1	14000000				
EP020CA: Oil and Grease										
Oil and Grease		1	mg/L	<1		16				

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## Inter-Laboratory Testing

Analysis conducted by ALS Canberra, NATA accreditation no. 992.

(WATER) EP020CA: Oil and Grease

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EA005P: pH by PC Titrator

(WATER) EP030: Biochemical Oxygen Demand (BOD) (WATER) EK055G: Ammonia as N by Discrete Analyser

(WATER) MW006: Faecal Coliforms & E.coli by MF

(WATER) EK067G: Total Phosphorus as P by Discrete Analyser

(WATER) EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser

(WATER) EK061G: Total Kjeldahl Nitrogen By Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

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

