

CERTIFICATE OF ANALYSIS

Work Order	: EW2201194	Page	: 1 of 3			
Client	ः Ingenia Holidays Merry Beach	Laboratory	Environmental Division NSW South Coast			
Contact	: Manager (Reports & Invoice)	Contact	: Glenn Davies			
Address	: Merry Beach Road,	Address	: 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia			
	Kioloa 2539					
Telephone	: 02 4457 1065	Telephone	: +61 2 4225 3125			
Project	: Beach Monitoring - July 2021	Date Samples Received	: 10-Mar-2022 16:14	ANUTUR.		
Order number	: P1806838	Date Analysis Commenced	: 11-Mar-2022			
C-O-C number	:	Issue Date	: 18-Mar-2022 18:41			
Sampler	:			Hac-MRA NATA		
Site	: Merry Beach					
Quote number	:			Accreditation No. 825		
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
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Geetha Ramasundara	Chemistry Teamleader	Inorganics, Fyshwick, ACT
Somlok Chai	Microbiologist	Sydney Microbiology, Smithfield, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, 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 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.
- \sim = Indicates an estimated value.
- Analytical work for this work order will be conducted at ALS Sydney.
- MF = membrane filtration
- CFU = colony forming unit
- 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.
- MW006 is ALS's internal code and is equivalent to AS4276.7.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	884/Eff1	884/Eff2	Influent	
	Sampling date / time			10-Mar-2022 00:00	10-Mar-2022 00:00	10-Mar-2022 00:00	
Compound	CAS Number	LOR	Unit	EW2201194-001	EW2201194-002	EW2201194-009	
				Result	Result	Result	
EA005P: pH by PC Titrator							
pH Value		0.01	pH Unit	7.54	7.73	7.35	
EA025: Total Suspended Solids drie	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	<5	<5	181	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	<0.01		2.60	
EK059G: Nitrite plus Nitrate as N (N	Ox) by Discrete Anal	lyser					
Nitrite + Nitrate as N		0.01	mg/L	6.58		5.57	
EK061G: Total Kjeldahl Nitrogen By	Discrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	1.2		13.1	
EK062G: Total Nitrogen as N (TKN +	NOx) by Discrete An	alyser					
^ Total Nitrogen as N		0.1	mg/L	7.8		18.7	
EK067G: Total Phosphorus as P by	Discrete Analyser						
Total Phosphorus as P		0.01	mg/L	0.02		6.79	
EP030: Biochemical Oxygen Deman	d (BOD)						
Biochemical Oxygen Demand		2	mg/L	2		4	
MW006: Faecal Coliforms & E.coli b	v MF						
Faecal Coliforms		1	CFU/100mL	~2		~200000	
Escherichia coli		1	CFU/100mL		~2	~200000	
EP020CA: Oil and Grease							
Oil and Grease		1	mg/L	<1		<1	

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 \pm 2°C