

CERTIFICATE OF ANALYSIS

Work Order : EW2103585

Client : Ingenia Holidays Merry Beach

Contact : Manager (Reports & Invoice)

Address : Merry Beach Road,

Kioloa 2539

Telephone : 02 4457 1065

 Project
 : ---

 Order number
 : ---

 C-O-C number
 : ---

Sampler : ----

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
 : 23-Aug-2021 13:52

 Date Analysis Commenced
 : 24-Aug-2021

Lave Date 24 C 2024 45

Issue Date : 01-Sep-2021 15:02



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.

SignatoriesPositionAccreditation CategoryAnkit JoshiInorganic ChemistSydney Inorganics, Smithfield, NSWNeil MartinTeam Leader - ChemistryChemistry, Newcastle West, NSWSarah GriffithsMicrobiologistSydney Microbiology, Smithfield, NSWSomlok ChaiMicrobiologistSydney 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 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.
- 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
- MW023 is ALS's internal code and is equivalent to AS4276.9.
- MW006 is ALS's internal code and is equivalent to AS4276.7.

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ALS

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	884/Eff1	884/Eff2	Influent	
	Sampling date / time			23-Aug-2021 12:15	23-Aug-2021 12:30	23-Aug-2021 12:20	
Compound	CAS Number	LOR	Unit	EW2103585-001	EW2103585-002	EW2103585-003	
				Result	Result	Result	
EA005P: pH by PC Titrator							
pH Value		0.01	pH Unit	6.99	7.09	6.78	
EA010P: Conductivity by PC Titrator							
Electrical Conductivity @ 25°C		1	μS/cm			3640	
EA025: Total Suspended Solids dried	at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	<5	<5	2300	
EK055G: Ammonia as N by Discrete A	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	0.05		0.06	
EK059G: Nitrite plus Nitrate as N (NC	x) by Discrete Anal	yser					
Nitrite + Nitrate as N		0.01	mg/L	44.3		46.5	
EK061G: Total Kjeldahl Nitrogen By D	Discrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	6.0		127	
EK062G: Total Nitrogen as N (TKN + I	NOx) by Discrete An	alyser					
^ Total Nitrogen as N		0.1	mg/L	50.3			
EK067G: Total Phosphorus as P by D	iscrete Analyser						
Total Phosphorus as P		0.01	mg/L	14.6		87.7	
EP021: Total Oil and Grease							
Total Oil and Grease		2	mg/L	<2		6	
EP030: Biochemical Oxygen Demand	(BOD)						
Biochemical Oxygen Demand		2	mg/L	<2		49	
MW006: Faecal Coliforms & E.coli by	MF						
Faecal Coliforms		1	CFU/100mL	<1		~40000	
Escherichia coli		1	CFU/100mL		<1		
MW023: Enterococci by Membrane Fi	Itration						
Enterococci		1	CFU/100mL			~11000	

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Inter-Laboratory Testing

Analysis conducted by ALS Newcastle - Water, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(WATER) EP021: Total 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

(WATER) EA010P: Conductivity by PC Titrator

(WATER) MW023: Enterococci by Membrane Filtration