

CERTIFICATE OF ANALYSIS

Work Order : WN1907735

Client : OBERON COUNCIL

Contact : Water Oberon

Address : 137-139 OBERON STREET

OBERON NSW.AUSTRALIA 2787

Telephone : ---

Project : OBERON WASTE WATER

Order number : 4015 C-O-C number : ----

Sampler : Andrew Krol

Site : ---

Quote number : WN Blanket Quote

No. of samples received : 4
No. of samples analysed : 4

Page : 1 of 3

Issue Date

Laboratory : ALS Water - Newcastle

Contact : Andrea Swan

Address : 5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 09-Oct-2019 09:10

Date Analysis Commenced : 09-Oct-2019

: 16-Oct-2019 10:18



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. 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, QAQC 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 Inorganic Chemist Sydney Inorganics, Smithfield, NSW
Gregory Towers Technical Officer Chemistry, Newcastle West, NSW
Neil Martin Team Leader - Chemistry Chemistry, Newcastle West, NSW
Suzanne Meldrum Senior Technical Officer Microbiology, Newcastle West, NSW

Page : 2 of 3
Work Order : WN1907735

Client : OBERON COUNCIL
Project : OBERON WASTE WATER



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by 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

A = 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.

- EK055A- Ammonia conducted by ALS Sydney, NATA accreditation no. 825, site no 10911.
- EK055A- Ammonia as N, NT-11.WN- TN+TP conducted by ALS Sydney, NATA accreditation no. 825, site no 10911.
- Thermotolerant coliform result is estimated due to the high number of non-target colonies present. Result may be underestimated.

Page : 3 of 3 Work Order : WN1907735

Client : OBERON COUNCIL
Project OBERON WASTE WATER



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			Up-Stream EMP3 08-Oct-2019 09:45	08-Oct-2019 00:00	ExPond Works Discharge EMP1 08-Oct-2019 11:30	
NOTE	Client sampling date / time			08-Oct-2019 09:30				
Compound	CAS Number	LOR	Unit	WN1907735-001	WN1907735-002	WN1907735-003	WN1907735-004	
				Result	Result	Result	Result	-
EA005: pH								
pH Value	3-1-1-1	0.01	pH Unit	7.34	7.08	7.13	DAME	
EA025: Total Suspended Solids drie	ed at 104 = 2°C							
Suspended Solids (SS)	-	1	mg/L	12				(**2)
EK055G: Ammonia as N by Discrete	Analyse							
Ammonia as N	7664-41-7	0.01	mg/L	1.66	1500		_	
EK059G: Nitrite plus Nitrate as N (N	IOx) by Discrete Ana	lyser						
Nitrite + Nitrate as N		0.01	mg/L	0.63	0.06	0.38	### *** ******** *********************	****
EK061G: Total Kjeldahl Nitrogen By	Discrete Analyse							
Total Kjeldahl Nitrogen as N		0,1	mg/L	2.8	0.5	0.5		teet).
EK062G: Total Nitrogen as N (TKN +	- NOx) by Discrete Ar	alyser						
^ Total Nitrogen as N		0.1	mg/L	3.4	0.6	0.9	- A A A A A A A A A A A A A A A A A A A	
EK067G: Total Phosphorus as P by	Discrete Analyse							
Total Phosphorus as P		0.01	mg/L	0.27	0.03	0.07		
EP008.WN: Chlorophyll a and Pheor	ohytin a							
Chlorophyli a	100	1,0	pg/L	5.4	3.444		and the state of t	***
EP021: Total Oil and Grease								
Total Oil and Grease	****	2	mg/L	<2		THE IS	N water and the second	
EP030.WN: Biochemical Oxygen De	mand (BOD)							
Blochemical Oxygen Demand		2	mg/L	5		The same of the sa	ENGE	
MW006.WN: Thermotolerant Colifor	ms & E.coli (MF	9 3						
Faecal Coliforms			CFU/100mL	POLID		1	~<9	tis Abdril Burthersenrett freness Abdril bedictively reliefes erene enviro