

## CERTIFICATE OF ANALYSIS

Work Order : WN1906392

Client : OBERON COUNCIL

: Lou Grozdanouski Contact

Address 137-139 OBERON STREET

**OBERON NSW, AUSTRALIA 2787** 

Telephone

**OBERON WASTE WATER** Project

9388 Order number C-O-C number

Lou Grozdanouski Sampler

Site

WN Blanket Quote Quote number

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

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Laboratory ALS Water - Newcastle

: Andrea Swan Contact

Address 5/585 Maitland Road Newcastle West NSW Australia 2304

Telephone **Date Samples Received**  +61 2 4014 2500 03-Sep-2019 08:30

**Date Analysis Commenced** 

03-Sep-2019

Issue Date 10-Sep-2019 11:40



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, 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

Neil Martin Team Leader - Chemistry Chemistry, Newcastle West, NSW Suzanne Meldrum **Technical Officer** Microbiology, Newcastle West, NSW Page : 2 of 3 Work Order : WN1906392

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## **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

\* = 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.

Holding time was not met. Therefore Microbiological result may be indicative.

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## Analytical Results

ub-Marrix: <b>WATER</b> Matrix: <b>WATER</b> )		CI	ient sample ID	ExPond Works Discharge EMP1	Up-Stream EMP3	Down-Stream EMP4	ExPond Works Discharge EMP1	****
1911 Co	Client sampling date / time			02-Sep-2019 10:00	02-Sep-2019 10:15	02-Sep-2019 10:30	02-Sep-2019 13:00	16967
Compound	CAS Number	LOR	Unit	WN1906392-001	WN1906392-002	WN1906392-003	WN1906392-004	and relation above
				Result	Result	Result	Result	
EA005: pt								
pH Value		0.01	pH Unit	8.33	7.17	7.06		2 <del>11</del> 23
A025: Total Suspended Solids un	ed at 104 ± 2°C							
Suspended Solids (SS)		-1	mg/L	12				
K055A: Ammonia as N								,
Ammonia as N	7684-41-7	0.05	mg/L	5,70				And the sales have the firefer that mustime are surplied as a second as a seco
EK059A: Nitrite and Nitrate as N (No	(x)							
Nitrite + Nitrate as N	1111	0.05	mg/L	2.80	0.13	1.20	****	
EK061A: Total Kjeldahl Nitrogen as	N	-						
Total Kjeldahl Nitrogen as N	100	0.2	mg/L	7.2	0.4	0.6		
EK062A: Total Nitrogen as N								
Total Nitrogen as N		0.1	mg/L	9.6	0.5	1.8		
EK067A: Total Phosphorus as								
Total Phosphorus as P		0.05	mg/L	0.40	<0.05	<0,05		Trains.
EP008.WN: Chlorophyll a and Pheo	phytin a							
Chlorophyll a		1.0	µg/L	32.6	-	-		
EP021: Total Oil and Greas								
Total Oil and Grease		2	mg/L	<2	0000			
EP030.WN: Biochemical Oxygen De	emand (BOD)							
Blochemical Oxygen Demand		2	mg/L	9		1120		1522
MW006.WN: Thermotolerant Colifor	rms & E.coli (MF)							
Faecal Coliforms		1	CFU/100mL	_	. <del>1111.</del>		~9	