Analytical Report 212372

Sydney WATER

Laboratory Services

 Delivery Address:
 Sydney Water Corporation

 51 Hermitage Rd
 West Ryde NSW 2114

 Analysis contact:
 Tel : (02) 9800 6935

 Email:
 analyticalservices@sydneywater.com.au

Address: PO Box 223

Cobar NSW 2835

Telephone: 6835 5800

Email: victor.papierniak@cobar.nsw.gov.au

Issue Date: 31/10/2019

Issued By : Sydney Water Laboratory Services

Attention:	Victor Papierniak-Wojtowicz
Customer:	Cobar Shire Council
Customer ID:	ZCSC

CONTENTS

- 1. Sydney Water Approved Signatory
- 2. Sample Summary
- 3. Analytical results
- 4. Comments
- 5. Laboratory QC results

Sydney Water Approved Signatory

Rong Feng, Clean & Waste Water Analyst

Cyrell Cascabel, Nutrients Analyst

Jouliet Ashak, Microbiology Analyst



Where a result is required to meet a compliance limit or specification the associated uncertainty must be considered. Uncertainty estimates are available for all accredited test results.

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



SAMPLE SUMMARY

<u>Client</u> Sample ID	<u>Sample</u> <u>Number</u>	<u>Sampling</u> Procedure	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> Authorised	Description
Point 1	L19083921	1	22/10/2019	23/10/2019	30/10/2019	Polisher
Point 2	L19083922	1	22/10/2019	23/10/2019	30/10/2019	Turkeys
Point 3	L19083923	1	22/10/2019	23/10/2019	30/10/2019	Splitter
Point 4	L19083924	1	22/10/2019	23/10/2019	30/10/2019	Splitter 2
Point 5	L19083925	1	22/10/2019	23/10/2019	30/10/2019	Inlet

Sampling procedures

1 Samples analysed as received.

2 Samples collected as per FS procedures SAWI 070, Excluding Oil & Grease which is collected as per clients instructions.

3 Samples collected as per FS procedures SAWI 070.

4 Results reported as received from WNSW.



ANALYTICAL RESULTS

Client Sample ID		Point 1	Point 2	Point 3	Point 4	Point 5			
Sampled Date		22/10/2019 07:30:00 AM	22/10/2019 07:52:00 AM	22/10/2019 07:30:00 AM	22/10/2019 08:03:00 AM	22/10/2019 08:10:00 AM			
Sample Number		L19083921	L19083922	L19083923	L19083924	L19083925			
CHEMISTRY									
WC12MET : Conductivity									
				r				Γ	1
Conductivity (mS/m)	mS/m	133.8	125.3	-	-	-			
Date of Performance	DD/MM/YY	23/10/19	23/10/19						
WC17NS : Biological oxygen	demand								
	-								-
BOD5	mg/L	2	3	150	24	130			
Date of Performance	DD/MM/YY	24/10/19	24/10/19	24/10/19	24/10/19	24/10/19			
WC26NS500 : Grease									
	_ _								
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	24/10/19	24/10/19						
WC44NS : Determination of	Fotal, Fixed & V	olatile Suspended S	olids						
	-	1							1
Total Suspended Solids	mg/L	8	3	-	-	-			
Date of Performance	DD/MM/YY	25/10/19	25/10/19						
MICRO									
"-" - Not required or refer t									

"-" = Not required or refer to Laboratory comment



Client Sample ID		Point 1	Point 2	Point 3	Point 4	Point 5			
Sampled Date		22/10/2019 07:30:00 AM	22/10/2019 07:52:00 AM	22/10/2019 07:30:00 AM	22/10/2019 08:03:00 AM	22/10/2019 08:10:00 AM			
Sample Number		L19083921	L19083922	L19083923	L19083924	L19083925			
MICRO									
MI01MUG : Faecal Coliforn	n and/or E. coli								
E.coli	CFU/100mL	-	2	-	-	-			
Faecal Coliform	CFU/100mL	-	2	-	-	-			
Date of Performance	D/M/Y H:M		23/10/19 14:54						
NUTRIENTS	-			-					-
NU102 : Nitrogen & Phospl	norus								
Total Nitrogen	mg/L	14.1	3.80	-	-	-			
Total Phosphorus	mg/L	0.915	0.479	-	-	-			
Date of Performance	DD/MM/YY	24/10/19	24/10/19						
COMMENTS									
	n <mark>ent Level</mark> od	<u>Method</u> MI01MUG	<u>Test</u> -	<u>Comment</u> Result confir	med. Sample analys	sed outside recomm	ended holding time	of 24Hrs.	

 Analysis
 Analysis Requirements

 MI01MUG
 Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

"-" = Not required or refer to Laboratory comment



LABORATORY QC RESULTS

N/A - Not Applicable PQL - Practical Quantitation Limit LOQ - Limit of Quantification RPD - Relative Percent Difference SPIKE/Positive Control - Addition of a known amount and concentration Duplicate Precision = Accepted - Result 2 within 95% confidence limits of result 1 Duplicate Precision = Outlier - Result 2 outside 95% confidence limits of result 1 Duplicate Precision = Not calculated - Result is outside test range



LOQ	Blank	Positive Control	Negative Control	Duplicate1	Duplicate2	Precision		
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria		
MI01MUG [Membrane Filtration]E.coli								
<1 CFU/100mL	<1	Accepted	Accepted	2	1	Not Calculated		
MI01MUG [Membrane Filtr	ration]Faecal Coliform							
<1 CFU/100mL	<1	Accepted	Accepted	2	1	Not Calculated		

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen				-		
<0.05 mg/L	<0.05	0.97	98 % Recovery	4.03	3.99	1.00 %
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 20 %
NU102 Total Phosphorus				-		
<0.002 mg/L	<0.002	0.046	102 % Recovery	0.067	0.068	1.48 %
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 20 %
WC12MET Conductivity (mS	/m)					
<0.1 mS/m	F	141.7	E	125.3	125.3	0.00 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5				-		
<2 mg/L	<2	180	E	4	4	В
		139 - 257 mg/L				0 - 0 %

Sydney WATER Laboratory Services

LOQ	Blank	Control	Control Spike [RPD
		Acceptance Criteria	Acceptance Criteria Acceptance Criteria		Acceptance Criteria
WC26NS500 Oil & Grease					
<5 mg/L	<5	86	E		
		85.1 - 101.5 mg/L			
WC44NS Total Suspended Se	olids		·	·	
<2 mg/L	<2	50	E	190 190	
		42.5 - 57.5 mg/L			

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

DUPLICATE BOD5 B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ