



Corporate Accreditation No 63
Accredited for compliance with ISO/IEC 17025 - Testing



Analytical Report 276256

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Delivery Address: Sydney Water Corporation
51 Hermitage Rd
West Ryde NSW 2114
Telephone: (02) 9800 6935
Email: analyticalservices@sydneywater.com.au

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

Address: PO Box 223, Cobar NSW 2835
Telephone: 6836 5800
Email: victor.papierniak@cobar.nsw.gov.au

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Sydney Water Approved Signatory

Dwijal Dave, Clean & Waste Water Analyst	Ricardo Quintana, Clean & Waste Water Analyst	Kathryn Gamble, Microbiology Analyst
Greta Haddad, Nutrients Laboratory Supervisor		

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.

Amendment Report no
coarptcomment attached

SAMPLE SUMMARY

<u>Client Sample ID</u>	<u>Sample Number</u>	<u>Sampling Procedure</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Authorised</u>	<u>Description</u>
PT 1 POLISHER	L22097669	1	12/12/2022	13/12/2022	20/12/2022	COBAR STP (WASTEWATER)
PT 2 TURKEYS	L22097670	1	12/12/2022	13/12/2022	20/12/2022	COBAR STP (WASTEWATER)
SPITTER BOX 1	L22097671	1	12/12/2022	13/12/2022	20/12/2022	COBAR STP (WASTEWATER)
SPITTER BOX 2	L22097672	1	12/12/2022	13/12/2022	20/12/2022	COBAR STP (WASTEWATER)
S INLET	L22097673	1	12/12/2022	13/12/2022	20/12/2022	COBAR STP (WASTEWATER)

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		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		12/12/2022 07:40:00 AM	12/12/2022 07:55:00 AM	12/12/2022 07:12:00 AM	12/12/2022 07:10:00 AM	12/12/2022 07:20:00 AM			
Sample Number		L22097669	L22097670	L22097671	L22097672	L22097673			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	143.7	112.5	-	-	-			
Date of Performance	DD/MM/YY	14/12/22	14/12/22						
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	2	<2	73	10	90			
Date of Performance	DD/MM/YY	14/12/22	14/12/22	14/12/22	14/12/22	14/12/22			
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	14/12/22	14/12/22						
WC44NS : Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	30	8	-	-	-			
Date of Performance	DD/MM/YY	15/12/22	15/12/22						

"-" = Not required or refer to Laboratory comment

Client Sample ID	PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date	12/12/2022 07:40:00 AM	12/12/2022 07:55:00 AM	12/12/2022 07:12:00 AM	12/12/2022 07:10:00 AM	12/12/2022 07:20:00 AM			
Sample Number	L22097669	L22097670	L22097671	L22097672	L22097673			
MICRO								
MI01 : Faecal Coliform and/or E. coli								
date of reading	D/M/Y H:M	-	15/12/22 08:22	-	-	-		
E.coli	CFU/100mL	-	<1	-	-	-		
Faecal Coliform	CFU/100mL	-	~6	-	-	-		
Date of Performance	D/M/Y H:M		13/12/22 15:04					
NUTRIENTS								
NU102 : Total Nitrogen & Total Phosphorus								
Total Nitrogen	mg/L	1.86	2.72	-	-	-		
Total Phosphorus	mg/L	0.830	1.73	-	-	-		
Date of Performance	DD/MM/YY	14/12/22	14/12/22					

(~): Counts of target colonies are outside the optimal precision range.

COMMENTS

Sample ID	Comment Level	Method	Test	Comment
L22097670	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

"-" = Not required or refer to Laboratory comment

Analysis

MI01

Analysis Requirements

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

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 <i>Acceptance Criteria</i>	Negative Control <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	Precision <i>Acceptance Criteria</i>
MI01 [Membrane Filtration]E.coli						
<1 CFU/100mL	<1	Accepted		<1	<1	
MI01 [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	~6	~5	

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.93 .88 - 1.12 mg/L	102 % Recovery 80 - 120 % Recovery	0.48	0.49	B 0 - 0 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.050 .045 - .055 mg/L	85 % Recovery 80 - 120 % Recovery	0.002	<0.002	B 0 - 0 %
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.1 139.3 - 143.3 mS/m	E			
WC17NS BOD5						
<2 mg/L	<2	190 139 - 257 mg/L	E	90	95	5.41 % 0 - 20 %

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
WC26NS500 Oil & Grease						
<5 mg/L	<5	98 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	50 42.5 - 57.5 mg/L	E	200	210	4.88 % 0 - 20 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

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