

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



Delivery Address: Sydney Water Corporation

51 Hermitage Rd

West Ryde NSW 2114

Telephone: (02) 9800 6935

Email: analyticalservices@sydneywater.com.au

Analytical Report 302081

Issue Date: 28/03/2024

Issued By: Sydney Water Laboratory Services

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

CONTENTS

1. Sydney Water Approved Signatory

- 2. Sample Summary
- 3. Analytical results
- 4. Comments

Supervisor

5. Laboratory QC results

Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Laboratory

Jouliet Ashak, 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.



SAMPLE SUMMARY

<u>Client</u> Sample ID	Sample Number	Sampling Procedure	<u>Date</u> Sampled	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	<u>Description</u>
PT1 (POLISHER)	L24028859	1	12/03/2024	20/03/2024	27/03/2024	COBAR STP (WW)
PT2 (TURKEYS)	L24028860	1	12/03/2024	20/03/2024	27/03/2024	COBAR STP (WW)
SPITTER BOX 1	L24028861	1	12/03/2024	20/03/2024	27/03/2024	COBAR STP (WW)
SPITTER BOX 2	L24028862	1	12/03/2024	20/03/2024	27/03/2024	COBAR STP (WW)
S INLET	L24028863	1	12/03/2024	20/03/2024	27/03/2024	COBAR STP (WW)

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		PT1 (POLISHE	PT2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET			
		R)							
Sampled Date		12/03/2024	12/03/2024	12/03/2024	12/03/2024	12/03/2024			
		08:00:00 AM	08:00:00 AM	08:00:00 AM	08:00:00 AM	08:00:00 AM			
Sample Number		L24028859	L24028860	L24028861	L24028862	L24028863			
CHEMISTRY									
WC12MET : Conductivity									
						1		I	Γ
Conductivity (mS/m)	mS/m	100.7	109.8	-	-	-			
Date of Performance	DD/MM/YY	21/03/24	21/03/24						
WC17NS : Biochemical oxyger	WC17NS : Biochemical oxygen demand								
BOD5	mg/L	4	3	140	15	93			
Date of Performance	DD/MM/YY	21/03/24	21/03/24	21/03/24	21/03/24	21/03/24			
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	21/03/24	21/03/24						
WC44NS : Total, Fixed & Volatile Suspended Solids									
	<u> </u>				1	1		Τ	Τ
Total Suspended Solids	mg/L	19	13	-	-	-			
Date of Performance	DD/MM/YY	23/03/24	23/03/24						

[&]quot;-" = Not required or refer to Laboratory comment



Client Sample ID		PT1 (POLISHE R)	PT2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET		
Sampled Date		12/03/2024 08:00:00 AM						
Sample Number		L24028859	L24028860	L24028861	L24028862	L24028863		
MICRO								
MI01 : Faecal Coliform and/or	E. coli							
E.coli	CFU/100mL	-	~7	-	-	-		
Faecal Coliform	CFU/100mL	-	~10	-	-	-		
Date of Performance	D/M/Y H:M		20/03/24 14:12					
NUTRIENTS								
NU102 : Total Nitrogen & Total	Phosphorus							
Total Nitrogen	mg/L	1.89	1.74	-	-	-		
Total Phosphorus	mg/L	1.71	1.23	-	-	-		
Date of Performance	DD/MM/YY	22/03/24	22/03/24					

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

COMMENTS

Sample IDComment LevelMethodTestCommentL24028860MethodMI01-Result confirmed. Sample processed outside of holding time, result may be affected.

Analysis Requirements

[&]quot;-" = Not required or refer to Laboratory comment

Analytical Report 302081



MI01

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

[&]quot;-" = 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	
MI01	[Membrane Filtration]E.coli							
	<1 CFU/100mL	<1	Accepted	Accepted	~7	~4	Not Calculated	
MI01	01 [Membrane Filtration]Faecal Coliform							
	<1 CFU/100mL	<1	Accepted	Accepted	~10	~5	Not Calculated	

LOQ	Blank	Control Spike		Duplicate1	Duplicate2	RPD			
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria			
NU102 Total Nitrogen									
<0.05 mg/L	<0.05	0.96	86 % Recovery	0.35	0.32	В			
		0.88 - 1.12 mg/L	80.0 - 120.0 % Recovery			0.0 - 0.0 %			
NU102 Total Phosphorus	NU102 Total Phosphorus								
<0.002 mg/L	<0.002	0.051	102 % Recovery	0.025	0.025	0.00 %			
		0.045 - 0.055 mg/L	80.0 - 120.0 % Recovery			0.0 - 50.0 %			
WC12MET Conductivity (mS/	WC12MET Conductivity (mS/m)								
<0.1 mS/m	F	141.2	E	47.2	47.2	0.00 %			
		139.3 - 143.3 mS/m				0.0 - 20.0 %			



LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD			
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria			
WC17NS BOD5									
<2 mg/L	<2	210	E	210	200	4.88 %			
		168.0 - 228.0 mg/L				0.0 - 20.0 %			
WC26NS500 Oil & Grease	WC26NS500 Oil & Grease								
<5 mg/L	<5	98	E						
		85.1 - 101.5 mg/L							
WC44NS Total Suspended S	WC44NS Total Suspended Solids								
<2 mg/L	<2	56	E	220	230	4.44 %			
		42.5 - 57.5 mg/L				0.0 - 20.0 %			

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte