



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



## Analytical Report 307272

**Issue Date:** 25/06/2024  
**Issued By :** Sydney Water Laboratory Services

**Delivery Address:** Sydney Water Corporation  
 51 Hermitage Rd  
 West Ryde NSW 2114  
**Telephone:** (02) 9800 6935  
**Email:** [analyticalservices@sydneywater.com.au](mailto: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](mailto:victor.papierniak@cobar.nsw.gov.au)

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### **Sydney Water Approved Signatory**

Dwijal Dave, Clean & Waste Water Analyst	Jeya Gajendran, Clean & Waste Water Laboratory Supervisor	Ricardo Quintana, Clean & Waste Water Analyst
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 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>
POINT 1 POLISHER	L24052302	1	11/06/2024	12/06/2024	23/06/2024	COBAR STP (WW)
POINT 2 TURKEYS	L24052303	1	11/06/2024	12/06/2024	24/06/2024	COBAR STP (WW)
SPITTER BOX 1	L24052304	1	11/06/2024	12/06/2024	21/06/2024	COBAR STP (WW)
SPITTER BOX 2	L24052305	1	11/06/2024	12/06/2024	21/06/2024	COBAR STP (WW)
S INLET	L24052306	1	11/06/2024	12/06/2024	21/06/2024	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**

<b>Client Sample ID</b>		POINT 1 POLISHER	POINT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
<b>Sampled Date</b>		11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM			
<b>Sample Number</b>		L24052302	L24052303	L24052304	L24052305	L24052306			
<b>CHEMISTRY</b>									
<b>WC12MET : Conductivity</b>									
Conductivity (mS/m)	mS/m	97.8	92.0	-	-	-			
Date of Performance	DD/MM/YY	13/06/24	13/06/24						
<b>WC17NS : Biochemical oxygen demand</b>									
BOD5	mg/L	<2	6	80	6	47			
Date of Performance	DD/MM/YY	13/06/24	13/06/24	13/06/24	13/06/24	13/06/24			
<b>WC26NS500 : Oil &amp; Grease</b>									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	14/06/24	14/06/24						
<b>WC44NS : Total, Fixed &amp; Volatile Suspended Solids</b>									
Total Suspended Solids	mg/L	4	22	-	-	-			
Date of Performance	DD/MM/YY	18/06/24	18/06/24						

"-" = Not required or refer to Laboratory comment

<b>Client Sample ID</b>		POINT 1 POLISHER	POINT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
<b>Sampled Date</b>		11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM	11/06/2024 08:00:00 AM			
<b>Sample Number</b>		L24052302	L24052303	L24052304	L24052305	L24052306			
<b>MICRO</b>									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	28	-	-	-			
Faecal Coliform	CFU/100mL	-	28	-	-	-			
Date of Performance	D/M/Y H:M		12/06/24 14:08						
<b>NUTRIENTS</b>									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	5.70	4.28	-	-	-			
Total Phosphorus	mg/L	3.09	2.68	-	-	-			
Date of Performance	DD/MM/YY	13/06/24	13/06/24						

**COMMENTS**

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L24052303	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

**Analysis**

MI01

**Analysis Requirements**

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 <i>Acceptance Criteria</i>	Negative Control <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	Precision <i>Acceptance Criteria</i>
<b>MI01 [Membrane Filtration]E.coli</b>						
<1 CFU/100mL	<1	Accepted	Accepted	28	28	Accepted
<b>MI01 [Membrane Filtration]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	28	28	Accepted

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
<b>NU102 Total Nitrogen</b>						
<0.05 mg/L	<0.05	0.98 <i>0.88 - 1.12 mg/L</i>	86 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.80	0.78	2.53 % <i>0.0 - 50.0 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.050 <i>0.045 - 0.055 mg/L</i>	89 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.030	0.027	10.53 % <i>0.0 - 50.0 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	141.2 <i>139.3 - 143.3 mS/m</i>	E	97.8	97.6	0.20 % <i>0.0 - 20.0 %</i>

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	190 139.0 - 257.0 mg/L	E	680	730	7.09 % 0.0 - 20.0 %
<b>WC26NS500 Oil &amp; Grease</b>						
<5 mg/L	<5	89 85.1 - 101.5 mg/L	E	18	15	B 0.0 - 0.0 %
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	50 42.5 - 57.5 mg/L	E	5300	5200	1.90 % 0.0 - 20.0 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

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