

**Corporate Accreditation No 63** 

Accredited for compliance with ISO/IEC 17025 - Testing



ACCREE	ical Repo	rt 296334	Delivery	51	ydney Water Corporation I Hermitage Rd /est Ryde NSW 2114
Issue Date: Issued By :	- 22/12/20		Telephon Email:	· ·	2) 9800 6935 nalyticalservices@sydneywater.com.au
	Attention:	Victor Papierniak-Wojtowicz	Address:	PO Box 223, C	obar NSW 2835
	Customer:	Cobar Shire Council	Telephone:	6836 5800	
	Customer ID:	ZCSC	Email:	victor.papierniak	@cobar.nsw.gov.au
CONTENTS 1. Sydney	Water Approve	d Signatory			

- 2. Sample Summary
- 3. Analytical results
- 4. Comments
- 5. Laboratory QC results

# Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Laboratory	Jouliet Ashak, Microbiology Analyst	Greta Haddad, Nutrients Laboratory Supervisor
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	<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	<b>Description</b>
PT 1 (POLISHER)	L23099574	1	12/12/2023	13/12/2023	21/12/2023	COBAR STP (WW)
PT 2 (TURKEYS)	L23099575	1	12/12/2023	13/12/2023	21/12/2023	COBAR STP (WW)
SPITTER BOX 1	L23099576	1	12/12/2023	13/12/2023	21/12/2023	COBAR STP (WW)
SPITTER BOX 2	L23099577	1	12/12/2023	13/12/2023	21/12/2023	COBAR STP (WW)
S INLET	L23099578	1	12/12/2023	13/12/2023	21/12/2023	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		PT 1 (POLISHE R)	PT 2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		12/12/2023 08:00:00 AM							
Sample Number		L23099574	L23099575	L23099576	L23099577	L23099578			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	104.0	126.1	-	-	-			
Date of Performance	DD/MM/YY	13/12/23	13/12/23						
WC17NS : Biochemical oxyge	n demand								
	1								
BOD5	mg/L	5	4	99	35	180			
Date of Performance	DD/MM/YY	14/12/23	14/12/23	14/12/23	14/12/23	14/12/23			
WC26NS500 : Oil & Grease	•								
	1							Γ	Γ
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	17/12/23	17/12/23						
WC44NS : Total, Fixed & Volat	tile Suspended	d Solids							
	,								
Total Suspended Solids	mg/L	29	13	-	-	-			
Date of Performance	DD/MM/YY	15/12/23	15/12/23						
	-								-

"-" = Not required or refer to Laboratory comment



Client Sample ID		PT 1 (POLISHE R)	PT 2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET		
Sampled Date		12/12/2023 08:00:00 AM						
Sample Number		L23099574	L23099575	L23099576	L23099577	L23099578		
MICRO								
MI01 : Faecal Coliform and	/or E. coli							
E.coli	CFU/100mL	-	<1	-	-	-		
Faecal Coliform	CFU/100mL	-	<1	-	-	-		
Date of Performance	D/M/Y H:M		13/12/23 14:21					
NUTRIENTS	-	-					-	-
NU102 : Total Nitrogen & T	otal Phosphorus							
Total Nitrogen	mg/L	2.11	2.01	-	-	-		
Total Phosphorus	mg/L	0.650	0.500	-	-	-		
Date of Performance	DD/MM/YY	14/12/23	14/12/23					

# **COMMENTS**

<u>Sample ID</u> L23099575	<u>Comment Level</u> Method	<u>Method</u> MI01	<u>Test</u> -	<b><u>Comment</u></b> Result confirmed. Sample processed outside of holding time, result may be affected.
<u>Analysis</u> MI01	<u>Analysis Requi</u> Faecal Coliform otherwise.		all results are presump	ptive unless indicated
"-" = 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	01 [Membrane Filtration]E.coli										
	<1 CFU/100mL	<1	Accepted	Accepted	<1	<1	Not Calculated				
MI01	101 [Membrane Filtration]Faecal Coliform										
	<1 CFU/100mL	<1	Accepted	Accepted	<1	<1	Not Calculated				

LOQ	Blank	Control	Control Spike		Duplicate2	RPD				
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria				
NU102 Total Nitrogen										
<0.05 mg/L	<0.05	0.93	96 % Recovery	0.29	0.28	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	94 % Recovery	0.007	0.006	В				
		0.045 - 0.055 mg/L	80.0 - 120.0 % Recovery			0.0 - 0.0 %				
WC12MET Conductivity (mS/	WC12MET Conductivity (mS/m)									
<0.1 mS/m F		140.8	E	208.5	208.0	0.24 %				
		139.3 - 143.3 mS/m				0.0 - 20.0 %				



LOQ	LOQ Blank		Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria Acceptance Criteria				Acceptance Criteria
WC17NS BOD5				-		
<2 mg/L	<2	220	E	860	820	
		139.0 - 257.0 mg/L				
WC26NS500 Oil & Grease						
<5 mg/L	<5	98	E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended So	blids					
<2 mg/L	<2	50	E	400	400	0.00 %
		44.0 - 53.0 mg/L				0.0 - 20.0 %

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