

**Corporate Accreditation No 63** 



	Accredited for compliance with ISO/IEC 17025 - Testing		
	GNISED	Delivery Address:	Sydney Water Corporation 51 Hermitage Rd
Analytica	al Report 283047		West Ryde NSW 2114
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Issue Date:

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## Sydney Water Approved Signatory

Dwijal Dave, Clean & Waste Water Analyst	Xin Ren, 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	<u>Sample</u> Number	<u>Sampling</u> Procedure	<u>Date</u> Sampled	<u>Date</u> Received	<u>Date</u> Authorised	Description
POINT 1 POLISHER	L23031486	1	11/04/2023	12/04/2023	18/04/2023	COBAR STP (WASTEWATER)
POINT 2 TURKEYS	L23031487	1	11/04/2023	12/04/2023	18/04/2023	COBAR STP (WASTEWATER)
SPLITTER BOX 1	L23031488	1	11/04/2023	12/04/2023	18/04/2023	COBAR STP (WASTEWATER)
SPLITTER BOX 2	L23031489	1	11/04/2023	12/04/2023	18/04/2023	COBAR STP (WASTEWATER)
INLET	L23031490	1	11/04/2023	12/04/2023	18/04/2023	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		POINT 1 POLISHER	POINT 2 TURKEYS	SPLITTER BOX 1	SPLITTER BOX 2	INLET		
Sampled Date		11/04/2023 07:38:00 AM	11/04/2023 07:55:00 AM	11/04/2023 07:32:00 AM	11/04/2023 07:35:00 AM	11/04/2023 07:30:00 AM		
Sample Number		L23031486	L23031487	L23031488	L23031489	L23031490		
CHEMISTRY		• • • • •						
WC12MET : Conductivity								
	1							1
Conductivity (mS/m)	mS/m	135.6	154.7	-	-	-		
Date of Performance	DD/MM/YY	13/04/23	13/04/23					
WC17NS : Biochemical oxyge	en demand							
								<del></del>
BOD5	mg/L	3	2	160	26	130		
Date of Performance	DD/MM/YY	13/04/23	13/04/23	13/04/23	13/04/23	13/04/23		
WC26NS500 : Oil & Grease								
	1							1
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	14/04/23	14/04/23					
WC44NS : Total, Fixed & Vola	tile Suspende	d Solids						
	1	г — т					 [	1
Total Suspended Solids	mg/L	10	10	-	-	-		
Date of Performance	DD/MM/YY	15/04/23	15/04/23					
"-" = Not required or refer to								

"-" = Not required or refer to Laboratory comment



Client Sample ID		POINT 1	POINT 2	SPLITTER BOX 1	SPLITTER BOX	INLET			
Client Sample ID		POLISHER	TURKEYS	SPEITTER BOX 1	2				
Sampled Date		11/04/2023 07:38:00 AM	11/04/2023 07:55:00 AM	11/04/2023 07:32:00 AM	11/04/2023 07:35:00 AM	11/04/2023 07:30:00 AM			
Sample Number		L23031486	L23031487	L23031488	L23031489	L23031490			
MICRO	MICRO								
MI01MUG : Faecal Coliforms a	and/or E. coli b	y Membrane Filtration	on						
E.coli	CFU/100mL	-	~14	-	-	-			
Faecal Coliform	CFU/100mL	-	~14	-	-	-			
Date of Performance	D/M/Y H:M		12/04/23 16:13						
NUTRIENTS									
NU102 : Total Nitrogen & Total	Phosphorus								
Total Nitrogen	mg/L	6.64	4.21	-	-	-			
Total Phosphorus	mg/L	5.28	2.82	-	-	-			
Date of Performance	DD/MM/YY	13/04/23	13/04/23						

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

# COMMENTS

Sample ID L23031487 Comment LevelMMethodI

<u>Method</u> MI01MUG Test

## <u>Comment</u>

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

<u>Analysis</u>

Analysis Requirements

"-" = Not required or refer to Laboratory comment



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	MI01MUG [Membrane Filtration]E.coli									
<1	CFU/100mL	<1	Accepted	Accepted	~14	~6	Not Calculated			
MI01MUG	MI01MUG [Membrane Filtration]Faecal Coliform									
<1	CFU/100mL	<1	Accepted	Accepted	~14	~6	Not Calculated			

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.93	106 % Recovery	1.09	1.14	4.48 %
		0.88 - 1.12 mg/L	80.0 - 120.0 % Recovery			0.0 - 20.0 %
NU102 Total Phosphorus				-		
<0.002 mg/L	<0.002	0.050	98 % Recovery	0.017	0.017	В
		0.045 - 0.055 mg/L	80.0 - 120.0 % Recovery			0.0 - 0.0 %
WC12MET Conductivity (mS	5/m)					
<0.1 mS/m	F	141.3	E	135.6	135.6	0.00 %
		139.3 - 143.3 mS/m				0.0 - 20.0 %
WC17NS BOD5	· · · ·		·	·		
<2 mg/L	<2	200	E	130	140	7.41 %
		139.0 - 257.0 mg/L				0.0 - 20.0 %

# Sydney WATER Laboratory Services

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD		
		Acceptance Criteria	Acceptance Criteria Acceptance Criteria			Acceptance Criteria		
WC26NS500 Oil & Grease								
<5 mg/L	<5	97	E					
		85.1 - 101.5 mg/L						
WC44NS Total Suspended So	olids	·	•	·				
<2 mg/L	<2	50	E	400	380	5.13 %		
		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

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