

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



Accreditation		290260	Deliver	y Address:	Sydney Water Corporation 51 Hermitage Rd West Ryde NSW 2114
Issue Date: 30/	/08/2023	r Laboratory Services	Telepho Email:	one:	(02) 9800 6935 analyticalservices@sydneywater.com.au
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Sydney Water Approved Signatory

Dwijal Dave, Clean & Waste Water Analyst	Jeya Gajendran, Clean & Waste Water Analyst	Jouliet Ashak, Microbiology Analyst
Hayman Akeed, Nutrients Analyst		

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> <u>Received</u>	<u>Date</u> Authorised	Description
PT1 (POLISHER)	L23066542	1	15/08/2023	15/08/2023	23/08/2023	(WASTE WATER)
PT2 (TURKEYS)	L23066543	1	15/08/2023	15/08/2023	23/08/2023	(WASTE WATER)
SPITTER BOX 1	L23066544	1	15/08/2023	15/08/2023	29/08/2023	(WASTE WATER)
SPITTER BOX 2	L23066545	1	15/08/2023	15/08/2023	29/08/2023	(WASTE WATER)
S INLET	L23066546	1	15/08/2023	15/08/2023	23/08/2023	(WASTE WATER)

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

Right Sample Date Right 15/08/2023 15/08/2023 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM 15/08/2023 07/45:00 AM sample Number L23066543 L23066543 L23066545 L2306545										
Markan 07:55:00 AM 08:17:00 AM 07:43:00 AM 07:45:00 AM 07:40:00 AM <t< td=""><td>Client Sample ID</td><td></td><td></td><td>PT2 (TURKEYS)</td><td>SPITTER BOX 1</td><td>SPITTER BOX 2</td><td>S INLET</td><td></td><td></td><td></td></t<>	Client Sample ID			PT2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Chemistry MC12MET : Conductivity Conductivity (mS/m) mS/m 118.7 108.0 · · · Image: Conductivity Conductivity (mS/m) mS/m 118.7 106.0 · · Image: Conductivity Date of Performance DD/MM/YY 16/08/23 16/08/23 Image: Conductivity Image: Conductivity <td< td=""><td>Sampled Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Sampled Date									
MC12MET : Conductivity MS/m 118.7 108.0 · <	Sample Number		L23066542	L23066543	L23066544	L23066545	L23066546			
Conductivity (mS/m) mS/m 118.7 108.0 <t< td=""><td colspan="10">CHEMISTRY</td></t<>	CHEMISTRY									
Date of Performance DD/MM/YY 16/08/23 16/08/23 Constrained Constrained <thconstrained< th=""> Constrained</thconstrained<>	WC12MET : Conductivity									
MC17NS : Biochemical oxygen demand mg/L <2 6 110 100 260 M BOD5 mg/L <2	Conductivity (mS/m)	mS/m	118.7	108.0	-	-	-			
BOD5 mg/L <2 6 110 110 260 Date of Performance DD/MM/YY 16/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23 10/08/23	Date of Performance	DD/MM/YY	16/08/23	16/08/23						
Late of PerformanceDD/MMI/YY16/08/23 <td>WC17NS : Biochemical oxyger</td> <td colspan="9">WC17NS : Biochemical oxygen demand</td>	WC17NS : Biochemical oxyger	WC17NS : Biochemical oxygen demand								
WC26NS500 : Oil & Grease mg/L <5 <5 - <t< td=""><td>BOD5</td><td>mg/L</td><td><2</td><td>6</td><td>110</td><td>110</td><td>260</td><td></td><td></td><td></td></t<>	BOD5	mg/L	<2	6	110	110	260			
Oil & Greasemg/Lmg/L<5<5<1<1<1Date of PerformanceDD/MM/YY17/08/2317/08/2310IIIIWC44NS : Total, Fixed & VolatileSuspended Solidsmg/L833II	Date of Performance	DD/MM/YY	16/08/23	16/08/23	16/08/23	16/08/23	16/08/23			
Image: A state of PerformanceImage: DD/MM/YYImage: A state of PerformanceImage: A state of Performance<	WC26NS500 : Oil & Grease									
Image: A state of PerformanceImage: DD/MM/YYImage: A state of PerformanceImage: A state of Performance<	Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance DD/MM/YY 18/08/23 18/08/23 - <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		<u> </u>								
Total Suspended Solids mg/L 8 33 - - - - - Date of Performance DD/MM/YY 18/08/23 18/08/23 0	Date of Performance	DD/MM/YY	17/08/23	17/08/23						
Date of Performance DD/MM/YY 18/08/23 18/08/23 Image: Control of the second seco	WC44NS : Total, Fixed & Volat	ile Suspendeo	d Solids							
	Total Suspended Solids	mg/L	8	33	-	-	-			
MICRO	Date of Performance	DD/MM/YY	18/08/23	18/08/23						
	MICRO									



Client Sample ID		PT1 (POLISHE R)	PT2 (TURKEYS)	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		15/08/2023 07:55:00 AM	15/08/2023 08:17:00 AM	15/08/2023 07:43:00 AM	15/08/2023 07:45:00 AM	15/08/2023 07:40:00 AM			
Sample Number		L23066542	L23066543	L23066544	L23066545	L23066546			
MICRO									
MI01 : Faecal Coliform and/or	E. coli								
							[[
E.coli	CFU/100mL	-	8	-	-	-			
Faecal Coliform	CFU/100mL	-	8	-	-	-			
Date of Performance	D/M/Y H:M		15/08/23 17:21						
NUTRIENTS									
NU102 : Total Nitrogen & Total	Phosphorus								
 Total Nitrogen	mg/L	6.33	3.90	-	-	-			
Total Phosphorus	mg/L	2.26	1.78	-	-	-			
Date of Performance	DD/MM/YY	16/08/23	16/08/23						

COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	Comment
L23066543	Method	MI01	-	Result confirmed.
<u>Analysis</u> MI01	<u>Analysis Requ</u> Faecal Coliforr otherwise.		all results are presum	nptive unless indicated

"-" = Not required or refer to Laboratory comment



LABORATORY QC RESULTS

N/A - Not Applicable PQL - Practical Quantifaction 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	I01 [Membrane Filtration]E.coli									
	<1 CFU/100mL	<1	Accepted	Accepted	8	5	Accepted			
MI01	All01 [Membrane Filtration]Faecal Coliform									
	<1 CFU/100mL	<1	Accepted	Accepted	8	5	Accepted			

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria Acceptance Criteria				Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.96	89 % Recovery	0.40	0.39	В
		0.88 - 1.12 mg/L	80.0 - 120.0 % Recovery			0.0 - 0.0 %
NU102 Total Phosphorus	· · · · · · · · · · · · · · · · · · ·					
<0.002 mg/L	<0.002	0.053	94 % Recovery	<0.002	<0.002	В
		0.045 - 0.055 mg/L	80.0 - 120.0 % Recovery			0.0 - 0.0 %
WC12MET Conductivity (mS	/m)					
<0.1 mS/m	F	140.1	E	108.0	107.8	0.19 %
		139.3 - 143.3 mS/m				0.0 - 20.0 %
WC17NS BOD5	· · · · ·					
<2 mg/L	<2	220	E	660	560	16.39 %
		139.0 - 257.0 mg/L				0.0 - 20.0 %

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LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
WC26NS500 Oil & Grease						
<5 mg/L	<5	91	E			
		85.1 - 101.5 mg/L				
WC44NS Total Suspended S	olids		•	•		
<2 mg/L	<2	51	E	130	130	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