

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing



Laboratory Services

Sydney Water Corporation

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Sydney Water Approved Signatory

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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> <u>Procedure</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	Date Authorised	Description
PT 1 POLISHER	L22047774	1	14/06/2022	16/06/2022	22/06/2022	COBAR STP (WASTEWATER)
PT 2 TURKEYS	L22047775	1	14/06/2022	16/06/2022	25/06/2022	COBAR STP (WASTEWATER)
SPITTER BOX 1	L22047776	1	14/06/2022	16/06/2022	22/06/2022	COBAR STP (WASTEWATER)
SPITTER BOX 2	L22047777	1	14/06/2022	16/06/2022	22/06/2022	COBAR STP (WASTEWATER)
INLET	L22047778	1	14/06/2022	16/06/2022	22/06/2022	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		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET		
Sampled Date		14/06/2022 07:44:00 AM	14/06/2022 08:20:00 AM	14/06/2022 07:35:00 AM	14/06/2022 07:30:00 AM	14/06/2022 07:41:00 AM		
Sample Number		L22047774	L22047775	L22047776	L22047777	L22047778		
CHEMISTRY		• • • •		•				
WC12 : Conductivity & Salinit	у							
	-			· · · · · ·			 	
Salinity	ppt	-	0.3	-	-	0.4		
Date of Performance	DD/MM/YY		16/06/22			16/06/22		
WC12MET : Conductivity	- -							
Conductivity (mS/m)	mS/m	68.7	64.9	-	-	-		
Date of Performance	DD/MM/YY	16/06/22	16/06/22					
WC17NS : Biochemical oxyge	en demand							
	-						 	
BOD5	mg/L	<2	<2	140	12	120		
Date of Performance	DD/MM/YY	17/06/22	17/06/22	17/06/22	17/06/22	17/06/22		
WC26NS500 : Oil & Grease	• 							
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	17/06/22	17/06/22				 	
WC44NS : Total, Fixed & Vola	atile Suspender	d Solids						
" " - Not required or refer t								



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Client Sample ID		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET		
Sampled Date		14/06/2022 07:44:00 AM	14/06/2022 08:20:00 AM	14/06/2022 07:35:00 AM	14/06/2022 07:30:00 AM	14/06/2022 07:41:00 AM		
Sample Number		L22047774	L22047775	L22047776	L22047777	L22047778		
CHEMISTRY								
WC44NS : Total, Fixed & Vol	atile Suspende	d Solids(Continued)						
Total Suspended Solids	mg/L	7	6	-	-	-		
Date of Performance	DD/MM/YY	17/06/22	20/06/22					
METALS	·					•		
TM70SAR : Metals by Induct	ively Coupled F	Plasma Atomic Emiss	ion Spectrometry					
SAR*	RATIO	-	3.4	-	-	2.9		
TM70SDT : Single digestion	for Metals							
Total Digestion	DONE	-	Done	-	-	Done		
Date of Performance	DD/MM/YY		17/06/22			17/06/22		
TM70TW : Metals by ICPAES	S.				•	•		
Total Calcium	mg/L	-	28.7	-	-	30.9		
Total Magnesium	mg/L	-	9.13	-	-	11.6		
Total Sodium	mg/L	-	82.5	-	-	73.6		
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* Indicates NATA accreditation does not cover the performance of this service



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Sampled Date		14/06/2022 07:44:00 AM	14/06/2022 08:20:00 AM	14/06/2022 07:35:00 AM	14/06/2022 07:30:00 AM	14/06/2022 07:41:00 AM		
Sample Number		L22047774	L22047775	L22047776	L22047777	L22047778		
METALS		•						
Date of Performance	DD/MM/YY		17/06/22			17/06/22		
MICRO								
MI01 : Faecal Coliform and/or	E. coli							
E.coli	CFU/100mL	-	23	-	-	-		
Faecal Coliform	CFU/100mL	-	23	-	-	-		
Date of Performance	D/M/Y H:M		16/06/22 14:31					
NUTRIENTS							-	
NU102 : Total Nitrogen & Total	l Phosphorus							
Total Nitrogen	mg/L	48.3	7.29	-	-	-		
Total Phosphorus	mg/L	6.30	4.24	-	-	-		
Date of Performance	DD/MM/YY	16/06/22	16/06/22					

COMMENTS

Sample ID	Comment Level	Method	Test	Comment
L22047775	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

* Indicates NATA accreditation does not cover the performance of this service



<u>Analysis</u>	Analysis Requirements
MI01	Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.
WC12	Conductivity measured @ 25 degrees Celsius
MI01	Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

^{*} Indicates NATA accreditation does not cover the performance of this service



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	23	22	Accepted
MI01	[Membrane Filtration]	Faecal Coliform					
	<1 CFU/100mL	<1	Accepted	Accepted	23	22	Accepted

LOQ	Blank	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria			Acceptance Criteria
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.95	96 % Recovery	0.66	0.67	1.50 %
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 50 %
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.052	111 % Recovery	0.019	0.019	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
TM70TW Total Calcium						
<0.01 mg/L	<0.01	51.9	99 % Recovery	28.7	28.6	0.35 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery			0 - 20 %
TM70TW Total Magnesium						
<0.02 mg/L	<0.02	51.1	100 % Recovery	9.13	9.15	0.22 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery			0 - 20 %

Sydney WATER Laboratory Services

LOQ	Blank	Control	Spike	Duplicate1 Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria		Acceptance Criteri
TM70TW Total Sodium					
<0.05 mg/L	<0.05	52.7	90 % Recovery	82.5 82.5	0.00 %
		40.0 - 60.0 mg/L	80 - 120 % Recovery		0 - 20 %
WC12MET Conductivity (m	S/m)	·			
<0.1 mS/m	F	140.6	E	68.7 68.8	0.15 %
		139.3 - 143.3 mS/m			0 - 20 %
WC12 Salinity		•	• •		
<0.1 ppt	F	0.7	E	0.3 0.3	В
		0.6 - 0.8 ppt			0 - 0 %
WC17NS BOD5		•	•		
<2 mg/L	<2	200	E	140 160	13.33 %
		139 - 257 mg/L			0 - 20 %
WC26NS500 Oil & Grease					
<5 mg/L	<5	92	E		
		85.1 - 101.5 mg/L			
WC44NS Total Suspended	Solids		·		
<2 mg/L	<2	51	E	780 780	0.00 %
		42.5 - 57.5 mg/L			0 - 20 %



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