



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



Analytical Report 279854

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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 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	L23014399	1	13/02/2023	14/02/2023	22/02/2023	COBAR STP (WASTEWATER)
POINT 2 TURKEYS	L23014400	1	13/02/2023	14/02/2023	27/02/2023	COBAR STP (WASTEWATER)
SPITTER BOX 1	L23014401	1	13/02/2023	14/02/2023	20/02/2023	COBAR STP (WASTEWATER)
SPITTER BOX 2	L23014402	1	13/02/2023	14/02/2023	20/02/2023	COBAR STP (WASTEWATER)
S INLET	L23014403	1	13/02/2023	14/02/2023	20/02/2023	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	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM			
Sample Number		L23014399	L23014400	L23014401	L23014402	L23014403			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	127.4	154.8	-	-	-			
Date of Performance	DD/MM/YY	15/02/23	15/02/23						
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	8	2	120	14	130			
Date of Performance	DD/MM/YY	15/02/23	15/02/23	15/02/23	15/02/23	15/02/23			
WC26NS250 : Oil & Grease									
Oil & Grease	mg/L	<10	-	-	-	-			
Date of Performance	DD/MM/YY	17/02/23							
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	-	<5	-	-	-			
Date of Performance	DD/MM/YY		17/02/23						
WC44NS : Total, Fixed & Volatile Suspended Solids									

"-" = Not required or refer to Laboratory comment

Client Sample ID		POINT 1 POLISHER	POINT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM	13/02/2023 08:00:00 AM			
Sample Number		L23014399	L23014400	L23014401	L23014402	L23014403			
CHEMISTRY									
WC44NS : Total, Fixed & Volatile Suspended Solids(Continued)									
Total Suspended Solids	mg/L	62	11	-	-	-			
Date of Performance	DD/MM/YY	15/02/23	17/02/23						
MICRO									
MI01MUG : Faecal Coliforms and/or E. coli by Membrane Filtration									
E.coli	CFU/100mL	-	~8	-	-	-			
Faecal Coliform	CFU/100mL	-	~8	-	-	-			
Date of Performance	D/M/Y H:M		14/02/23 17:20						
NUTRIENTS									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	5.39	2.38	-	-	-			
Total Phosphorus	mg/L	1.23	1.06	-	-	-			
Date of Performance	DD/MM/YY	17/02/23	17/02/23						

"-" = 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>
MI01MUG [Membrane Filtration]E.coli						
<1 CFU/100mL	<1	Accepted	Accepted	~8	~6	Not Calculated
MI01MUG [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	~8	~6	Not Calculated

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
NU102 Total Nitrogen						
<0.05 mg/L	<0.05	0.93 <i>0.88 - 1.12 mg/L</i>	94 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.35	0.34	B <i>0.0 - 0.0 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.048 <i>0.045 - 0.055 mg/L</i>	85 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.005	0.004	B <i>0.0 - 0.0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.0 <i>139.3 - 143.3 mS/m</i>	E	127.4	127.4	0.00 % <i>0.0 - 20.0 %</i>
WC17NS BOD5						
<2 mg/L	<2	170 <i>139.0 - 257.0 mg/L</i>	E	120	120	0.00 % <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>
WC26NS250 Oil & Grease						
<10 mg/L	<10	94 85.1 - 101.5 mg/L	E	42	40	B 0.0 - 0.0 %
WC26NS500 Oil & Grease						
<5 mg/L	<5	94 85.1 - 101.5 mg/L	E	42	40	B 0.0 - 0.0 %
WC44NS Total Suspended Solids						
<2 mg/L	<2	51 42.5 - 57.5 mg/L	E	62	66	6.25 % 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
- DUPLICATE Oil & Grease B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ
- DUPLICATE Oil & Grease B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ