



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



Analytical Report 305090

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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	L24042316	1	07/05/2024	08/05/2024	15/05/2024	POLISHER (WASTEWATER)
POINT 2	L24042317	1	07/05/2024	08/05/2024	17/05/2024	TURKEYS (WASTEWATER)
SPITTER BOX 1	L24042318	1	07/05/2024	08/05/2024	15/05/2024	(WASTEWATER)
SPITTER BOX 2	L24042319	1	07/05/2024	08/05/2024	15/05/2024	(WASTEWATER)
S INLET	L24042320	1	07/05/2024	08/05/2024	15/05/2024	(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	POINT 2	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		07/05/2024 07:47:00 AM	07/05/2024 08:12:00 AM	07/05/2024 07:31:00 AM	07/05/2024 07:29:00 AM	07/05/2024 07:25:00 AM			
Sample Number		L24042316	L24042317	L24042318	L24042319	L24042320			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	90.2	91.0	-	-	-			
Date of Performance	DD/MM/YY	08/05/24	08/05/24						
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	<2	<2	81	4	110			
Date of Performance	DD/MM/YY	09/05/24	12/05/24	09/05/24	09/05/24	09/05/24			
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	10/05/24	10/05/24						
WC44NS : Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	5	5	-	-	-			
Date of Performance	DD/MM/YY	13/05/24	14/05/24						
MICRO									

"-" = Not required or refer to Laboratory comment

Client Sample ID		POINT 1	POINT 2	SPITTER BOX 1	SPITTER BOX 2	S INLET			
Sampled Date		07/05/2024 07:47:00 AM	07/05/2024 08:12:00 AM	07/05/2024 07:31:00 AM	07/05/2024 07:29:00 AM	07/05/2024 07:25:00 AM			
Sample Number		L24042316	L24042317	L24042318	L24042319	L24042320			
MICRO									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	~60	-	-	-			
Faecal Coliform	CFU/100mL	-	~68	-	-	-			
Date of Performance	D/M/Y H:M		08/05/24 15:33						
NUTRIENTS									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	3.41	3.66	-	-	-			
Total Phosphorus	mg/L	3.12	3.17	-	-	-			
Date of Performance	DD/MM/YY	09/05/24	09/05/24						

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

COMMENTS

Sample ID	Comment Level	Method	Test	Comment
L24042317	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.
L24042317	Method	WC17NS	-	Sample processed outside of holding time.

Analysis **Analysis Requirements**

"-" = Not required or refer to Laboratory comment

MI01 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 <i>Acceptance Criteria</i>	Negative Control <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	Precision <i>Acceptance Criteria</i>
MI01 [Membrane Filtration]E.coli						
<1 CFU/100mL	<1	Accepted	Accepted	~60	~46	Not Calculated
MI01 [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	~68	~52	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>	87 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.32	0.30	B <i>0.0 - 0.0 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.050 <i>0.045 - 0.055 mg/L</i>	89 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.007	0.007	B <i>0.0 - 0.0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.4 <i>139.3 - 143.3 mS/m</i>	E			

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
WC17NS BOD5						
<2 mg/L	<2	210 139.0 - 257.0 mg/L	E	930	950	2.13 % 0.0 - 20.0 %
WC26NS500 Oil & Grease						
<5 mg/L	<5	88 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	53 42.5 - 57.5 mg/L	E	1700	1700	0.00 % 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