



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



Analytical Report 234115

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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	L20093640	1	10/11/2020	11/11/2020	18/11/2020	Polisher
Point 2	L20093641	1	10/11/2020	11/11/2020	18/11/2020	Turkeys
Spitter Box 1	L20093642	1	10/11/2020	11/11/2020	18/11/2020	
Spitter Box 2	L20093643	1	10/11/2020	11/11/2020	18/11/2020	
S Inlet	L20093644	1	10/11/2020	11/11/2020	18/11/2020	

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	10/11/2020 07:40:00 AM	10/11/2020 07:50:00 AM	10/11/2020 07:30:00 AM	10/11/2020 07:30:00 AM	10/11/2020 07:30:00 AM			
Sample Number	L20093640	L20093641	L20093642	L20093643	L20093644			

CHEMISTRY

WC12MET : Conductivity

Conductivity (mS/m)	mS/m	88.5	95.6	-	-	-		
Date of Performance	DD/MM/YY	11/11/20	11/11/20					

WC17NS : Biological oxygen demand

BOD5	mg/L	9	5	280	55	250		
Date of Performance	DD/MM/YY	12/11/20	12/11/20	12/11/20	12/11/20	12/11/20		

WC26NS500 : Grease

Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	16/11/20	16/11/20					

WC44NS : Determination of Total, Fixed & Volatile Suspended Solids

Total Suspended Solids	mg/L	24	5	-	-	-		
Date of Performance	DD/MM/YY	13/11/20	13/11/20					

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		10/11/2020 07:40:00 AM	10/11/2020 07:50:00 AM	10/11/2020 07:30:00 AM	10/11/2020 07:30:00 AM	10/11/2020 07:30:00 AM			
Sample Number		L20093640	L20093641	L20093642	L20093643	L20093644			
MICRO									
MI01MUG : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	6	-	-	-			
Faecal Coliform	CFU/100mL	-	6	-	-	-			
Date of Performance	D/M/Y H:M		11/11/20 20:10						
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	10.5	10.5	-	-	-			
Total Phosphorus	mg/L	3.12	2.09	-	-	-			
Date of Performance	DD/MM/YY	12/11/20	12/11/20						

COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L20093641	Method	MI01MUG	-	Result confirmed. Sample analysed outside recommended holding time of 24Hrs.

Analysis

MI01MUG

Analysis Requirements

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>
MI01MUG [Membrane Filtration]E.coli						
<1 CFU/100mL	<1	Accepted	Accepted	6	1	Not Calculated
MI01MUG [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	6	1	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	0.94 <i>0.88 - 1.12 mg/L</i>	108 % Recovery <i>80 - 120 % Recovery</i>	2.45	2.50	2.02 % <i>0 - 20 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.051 <i>0.045 - 0.055 mg/L</i>	94 % Recovery <i>80 - 120 % Recovery</i>	0.288	0.286	0.70 % <i>0 - 20 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.7 <i>139.3 - 143.3 mS/m</i>	E	88.5	88.6	0.11 % <i>0 - 20 %</i>
WC17NS BOD5						
<2 mg/L	<2	180 <i>139 - 257 mg/L</i>	E	130	130	0.00 % <i>0 - 20 %</i>

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
WC26NS500 Oil & Grease						
<5 mg/L	<5	88 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	50 42.5 - 57.5 mg/L	E	<2	<2	B 0 - 0 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

DUPLICATE Total Suspended Solids

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