

Analytical Report 208667



Laboratory Services

Issue Date: 22/08/2019
Issued By : Sydney Water Laboratory Services

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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.

Corporate Accreditation No 63

Accredited for compliance with ISO/IEC 17025 - Testing

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	L19064828	1	13/08/2019	15/08/2019	21/08/2019	Polisher
Point 2	L19064829	1	13/08/2019	15/08/2019	21/08/2019	Turkeys
Inlet	L19064830	1	13/08/2019	15/08/2019	21/08/2019	
Splitter Box 1	L19064831	1	13/08/2019	15/08/2019	21/08/2019	
Splitter Box 2	L19064832	1	13/08/2019	15/08/2019	21/08/2019	

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	Inlet	Splitter Box 1	Splitter Box 2			
Sampled Date	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM			
Sample Number	L19064828	L19064829	L19064830	L19064831	L19064832			

CHEMISTRY

WC12MET : Conductivity

Conductivity (mS/m)	mS/m	117.2	116.5	-	-	-		
Date of Performance	DD/MM/YY	16/08/19	16/08/19					

WC17NS : Biological oxygen demand

BOD5	mg/L	2	<2	47	540	100		
Date of Performance	DD/MM/YY	16/08/19	16/08/19	16/08/19	16/08/19	16/08/19		

WC26NS500 : Grease

Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	16/08/19	16/08/19					

WC44NS : Determination of Total, Fixed & Volatile Suspended Solids

Total Suspended Solids	mg/L	7	3	-	-	-		
Date of Performance	DD/MM/YY	16/08/19	16/08/19					

MICRO

"-" = Not required or refer to Laboratory comment

Client Sample ID		Point 1	Point 2	Inlet	Splitter Box 1	Splitter Box 2			
Sampled Date		13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM	13/08/2019 08:00:00 AM			
Sample Number		L19064828	L19064829	L19064830	L19064831	L19064832			
MICRO									
MI01MUG : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	~21000	-	-	-			
Faecal Coliform	CFU/100mL	-	~21000	-	-	-			
Date of Performance	D/M/Y H:M		15/08/19 15:41						
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	13.4	9.86	-	-	-			
Total Phosphorus	mg/L	1.09	1.02	-	-	-			
Date of Performance	DD/MM/YY	19/08/19	19/08/19						

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

COMMENTS

Sample ID	Comment Level	Method	Test	Comment
L19064829	Method	MI01MUG	-	Result confirmed. Sample analysed outside recommended holding time of 24Hrs.
L19064828	Method	WC17NS	-	Sample processed outside of holding time. .
L19064829	Method	WC17NS	-	Sample processed outside of holding time. .
L19064830	Method	WC17NS	-	Sample processed outside of holding time. .

"-" = Not required or refer to Laboratory comment

L19064831	Method	WC17NS	-	Sample processed outside of holding time. .
L19064832	Method	WC17NS	-	Sample processed outside of holding time. .

Analysis

MI01MUG

Analysis Requirements

Faecal Coliforms and/or E.Coli: all results are presumptive unless indicated otherwise.

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	~21000	~15000	Not Calculated
MI01MUG [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	~21000	~15000	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	0.92 <i>0.88 - 1.12 mg/L</i>	83 % Recovery <i>80 - 120 % Recovery</i>	2.37	2.36	0.42 % <i>0 - 20 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.051 <i>0.045 - 0.055 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	0.018	0.018	B <i>0 - 0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.6 <i>139.3 - 143.3 mS/m</i>	E			
WC17NS BOD5						
<2 mg/L	<2	190 <i>139 - 257 mg/L</i>	E	2	2	B <i>0 - 0 %</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	92 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	49 42.5 - 57.5 mg/L	E	340	360	5.71 % 0 - 20 %

Extra Note:

F: Blank is not applicable for this analyte

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

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 BOD5 B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ