Analytical Report 220525

Issued By: Sydney Water Laboratory Services



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Issue Date: 21/03/2020

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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</u> Sample ID	<u>Sample</u> <u>Number</u>	Sampling Procedure	<u>Date</u> Sampled	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	Description
Point 1	L20022810	1	10/03/2020	11/03/2020	20/03/2020	Polisher
Point 2	L20022811	1	10/03/2020	11/03/2020	20/03/2020	Turkeys
Splitter	L20022812	1	10/03/2020	11/03/2020	20/03/2020	
Box 1 STP	L20022813	1	10/03/2020	11/03/2020	18/03/2020	Spliter
Box 2 STP	L20022814	1	10/03/2020	11/03/2020	20/03/2020	Spliter
Inlet STP	L20022815	1	10/03/2020	11/03/2020	20/03/2020	

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

		1							
Client Sample ID		Point 1	Point 2	Splitter	Box 1 STP	Box 2 STP	Inlet STP		
Sampled Date		10/03/2020 08:00:00 AM							
Sample Number		L20022810	L20022811	L20022812	L20022813	L20022814	L20022815		
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	175.6	187.3	_	-1	-	-		
Date of Performance	DD/MM/YY	11/03/20	11/03/20						
WC17NS : Biological oxygen demand									
BOD5	mg/L	6	13	<2	170	20	150		
Date of Performance	DD/MM/YY	14/03/20	14/03/20	14/03/20	13/03/20	14/03/20	14/03/20		
WC26NS500 : Grease									
Oil & Grease	mg/L	-	<5	-	-	-	-		
Date of Performance	DD/MM/YY		14/03/20						
WC44NS : Determination of Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	32	45	-	-	-	-		
Date of Performance	DD/MM/YY	16/03/20	16/03/20						
NUTRIENTS									

[&]quot;-" = Not required or refer to Laboratory comment



Client Sample ID		Point 1	Point 2	Splitter	Box 1 STP	Box 2 STP	Inlet STP		
Sampled Date		10/03/2020 08:00:00 AM							
Sample Number		L20022810	L20022811	L20022812	L20022813	L20022814	L20022815		
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	4.46	6.44	-	-	-	-		
Total Phosphorus	mg/L	0.600	0.550	-	-	-	-		
Date of Performance	DD/MM/YY	12/03/20	12/03/20						

COMMENTS

[&]quot;-" = 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	Control	Spike	Duplicate1	Duplicate2	RPD
		Acceptance Criteria	Acceptance Criteria		·	Acceptance Criteri
NU102 Total Nitrogen			<u> </u>			·
<0.05 mg/L	<0.05	0.92	109 % Recovery	0.18	0.17	В
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %
NU102 Total Phosphorus				•		
<0.002 mg/L	<0.002	0.051	102 % Recovery	0.016	0.016	В
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %
WC12MET Conductivity (mS	6/m)			•		
<0.1 mS/m	F	141.4	E	109.3	109.4	0.91e-1 %
		139.3 - 143.3 mS/m				0 - 20 %
WC17NS BOD5				•		
<2 mg/L	<2	190	E	230	230	0.00 %
		139 - 257 mg/L				0 - 20 %
WC26NS500 Oil & Grease		·				
<5 mg/L	<5	86	E	30	32	В
		85.1 - 101.5 mg/L				0 - 0 %
WC44NS Total Suspended S	Solids	•				
<2 mg/L	<2	50	E	430	440	2.30 %
		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 Nitrogen

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

DUPLICATE

DUPLICATE

DUPLICATE

Oil & Grease

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

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