Analytical Report 218790



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Issue Date: 25/02/2020

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Sydney Water Approved Signatory

Jeya Gajendran, Clean & Waste Water Analyst Greta Haddad, Nutrients Laboratory Supervisor Rong Feng, Clean & Waste Water Analyst

Address:



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> <u>Sample ID</u>	<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 Polisher	L20014387	1	11/02/2020	12/02/2020	24/02/2020	
Point 2 Turkeys	L20014388	1	11/02/2020	12/02/2020	20/02/2020	
Inlet	L20014389	1	11/02/2020	12/02/2020	20/02/2020	
Splitter Box 1	L20014390	1	11/02/2020	12/02/2020	20/02/2020	
Splitter Box 2	L20014391	1	11/02/2020	12/02/2020	20/02/2020	

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 Polisher	Point 2 Turkeys	Inlet	Splitter Box 1	Splitter Box 2		
Sampled Date		11/02/2020 12:00:00 AM						
Sample Number		L20014387	L20014388	L20014389	L20014390	L20014391		
CHEMISTRY							•	•
WC12MET : Conductivity								
Conductivity (mS/m)	mS/m	197.6	177.4	-	-	-		
Date of Performance	DD/MM/YY	12/02/20	12/02/20					
WC17NS : Biological oxyge	n demand							
BOD5	mg/L	10	12	160	150	9		
Date of Performance	DD/MM/YY	14/02/20	14/02/20	14/02/20	14/02/20	14/02/20		
WC26NS500 : Grease								
Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	14/02/20	14/02/20					
WC44NS : Determination o	f Total, Fixed & V	olatile Suspended So	olids					
Total Suspended Solids	mg/L	34	43	-	-	-		
Date of Performance	DD/MM/YY	17/02/20	14/02/20					
	-					-	•	

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



Client Sample ID		Point 1 Polisher	Point 2 Turkeys	Inlet	Splitter Box 1	Splitter Box 2			
Sampled Date		11/02/2020 12:00:00 AM							
Sample Number		L20014387	L20014388	L20014389	L20014390	L20014391			
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	5.76	6.52	-	-	-			
Total Phosphorus	mg/L	0.946	0.632	-	-	-			
Date of Performance	DD/MM/YY	14/02/20	14/02/20						

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 Criteria			Acceptance Criteria	
NU102 Total Nitrogen							
<0.05 mg/L	<0.05	0.93	102 % Recovery	0.24	0.26	В	
		0.88 - 1.12 mg/L	80 - 120 % Recovery			0 - 0 %	
NU102 Total Phosphorus							
<0.002 mg/L	<0.002	0.047	98 % Recovery	0.003	0.003	В	
		0.045 - 0.055 mg/L	80 - 120 % Recovery			0 - 0 %	
WC12MET Conductivity (mS	5/m)						
<0.1 mS/m	F	142.2	E	26.2	26.2	0.00 %	
		139.3 - 143.3 mS/m				0 - 20 %	
WC17NS BOD5							
<2 mg/L	<2	170	E	160	150	6.45 %	
		139 - 257 mg/L				0 - 20 %	
WC26NS500 Oil & Grease							
<5 mg/L	<5	96	E				
		85.1 - 101.5 mg/L					
WC44NS Total Suspended S	Solids			•			
<2 mg/L	<2	51	E	200	190	5.13 %	
		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 Total Phosphorus B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ