

Analytical Report 230529



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Issued By : Sydney Water Laboratory Services

Delivery Address: Sydney Water Corporation
51 Hermitage Rd
West Ryde NSW 2114

Analysis contact: Tel : (02) 9800 6935
Email: analyticalservices@sydneywater.com.au

Attention: Victor Papierniak-Wojtowicz
Customer: Cobar Shire Council
Customer ID: ZCSC

Address: PO Box 223
Cobar NSW 2835
Telephone: 6836 5800

Email: victor.papierniak@cobar.nsw.gov.au

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Sydney Water Approved Signatory

Dwijal Dave, Clean & Waste Water Analyst
Renuka Kasthuriarachchi, Nutrients Analyst

Jeya Gajendran, Clean & Waste Water Analyst



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	L20074558	1	08/09/2020	09/09/2020	16/09/2020	Polisher
Point 2	L20074559	1	08/09/2020	09/09/2020	16/09/2020	Turkeys
Spitter Box 1	L20074560	1	08/09/2020	09/09/2020	16/09/2020	
Spitter Box 2	L20074561	1	08/09/2020	09/09/2020	16/09/2020	
S Inlet	L20074562	1	08/09/2020	09/09/2020	16/09/2020	

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	08/09/2020 07:41:00 AM	08/09/2020 07:45:00 AM	08/09/2020 07:50:00 AM	08/09/2020 07:54:00 AM	08/09/2020 07:55:00 AM			
Sample Number	L20074558	L20074559	L20074560	L20074561	L20074562			

CHEMISTRY

WC12MET : Conductivity

Conductivity (mS/m)	mS/m	89.2	97.2	-	-	-		
Date of Performance	DD/MM/YY	09/09/20	09/09/20					

WC17NS : Biological oxygen demand

BOD5	mg/L	7	5	330	9	170		
Date of Performance	DD/MM/YY	11/09/20	11/09/20	11/09/20	11/09/20	11/09/20		

WC26NS500 : Grease

Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	15/09/20	15/09/20					

WC44NS : Determination of Total, Fixed & Volatile Suspended Solids

Total Suspended Solids	mg/L	25	3	-	-	-		
Date of Performance	DD/MM/YY	11/09/20	11/09/20					

NUTRIENTS

"-" = Not required or refer to Laboratory comment

Client Sample ID		Point 1	Point 2	Spitter Box 1	Spitter Box 2	S Inlet			
Sampled Date		08/09/2020 07:41:00 AM	08/09/2020 07:45:00 AM	08/09/2020 07:50:00 AM	08/09/2020 07:54:00 AM	08/09/2020 07:55:00 AM			
Sample Number		L20074558	L20074559	L20074560	L20074561	L20074562			
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	15.2	11.5	-	-	-			
Total Phosphorus	mg/L	2.10	1.54	-	-	-			
Date of Performance	DD/MM/YY	11/09/20	11/09/20						

COMMENTS

"-" = 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 <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>	94 % Recovery <i>80 - 120 % Recovery</i>	0.30	0.29	B <i>0 - 0 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.049 <i>0.045 - 0.055 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	0.003	0.003	B <i>0 - 0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	141.9 <i>139.3 - 143.3 mS/m</i>	E	207.6	207.3	0.14 % <i>0 - 20 %</i>
WC17NS BOD5						
<2 mg/L	<2	190 <i>139 - 257 mg/L</i>	E	160	170	6.06 % <i>0 - 20 %</i>
WC26NS500 Oil & Grease						
<5 mg/L	<5	88 <i>85.1 - 101.5 mg/L</i>	E			
WC44NS Total Suspended Solids						
<2 mg/L	<2	50 <i>42.5 - 57.5 mg/L</i>	E	430	430	0.00 % <i>0 - 20 %</i>

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