



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



Analytical Report 236385

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Issued By : Sydney Water Laboratory Services

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

Jeya Gajendran, Clean & Waste Water Analyst

Jouliet Ashak, Microbiology Analyst

Renuka Kasthuriarachchi, Nutrients 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.

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>
TURKEYS NEST	L20105270	1	15/12/2020	16/12/2020	25/12/2020	POINT 2
SPLITER BOX 1	L20105271	1	15/12/2020	16/12/2020	22/12/2020	
SPLITER BOX 2	L20105272	1	15/12/2020	16/12/2020	22/12/2020	
POLISHER	L20105273	1	15/12/2020	16/12/2020	25/12/2020	POINT 1
INLET STP	L20105274	1	15/12/2020	16/12/2020	22/12/2020	

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		TURKEYS NEST	SPLITER BOX 1	SPLITER BOX 2	POLISHER	INLET STP			
Sampled Date		15/12/2020 07:40:00 AM	15/12/2020 07:10:00 AM	15/12/2020 07:10:00 AM	15/12/2020 07:30:00 AM	15/12/2020 07:10:00 AM			
Sample Number		L20105270	L20105271	L20105272	L20105273	L20105274			
CHEMISTRY									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	78.9	-	-	78.3	-			
Date of Performance	DD/MM/YY	17/12/20			17/12/20				
WC17NS : Biological oxygen demand									
BOD5	mg/L	9	240	26	9	110			
Date of Performance	DD/MM/YY	17/12/20	17/12/20	17/12/20	17/12/20	17/12/20			
WC26NS500 : Grease									
Oil & Grease	mg/L	<5	-	-	<5	-			
Date of Performance	DD/MM/YY	22/12/20			22/12/20				
WC44NS : Determination of Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	190	-	-	55	-			
Date of Performance	DD/MM/YY	21/12/20			21/12/20				
MICRO									

"-" = Not required or refer to Laboratory comment

Client Sample ID		TURKEYS NEST	SPLITER BOX 1	SPLITER BOX 2	POLISHER	INLET STP			
Sampled Date		15/12/2020 07:40:00 AM	15/12/2020 07:10:00 AM	15/12/2020 07:10:00 AM	15/12/2020 07:30:00 AM	15/12/2020 07:10:00 AM			
Sample Number		L20105270	L20105271	L20105272	L20105273	L20105274			
MICRO									
MI01MUG : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	39	-	-	-	-			
Faecal Coliform	CFU/100mL	39	-	-	-	-			
Date of Performance	D/M/Y H:M	16/12/20 18:34							
NUTRIENTS									
NU102 : Nitrogen & Phosphorus									
Total Nitrogen	mg/L	6.30	-	-	4.94	-			
Total Phosphorus	mg/L	4.98	-	-	3.40	-			
Date of Performance	DD/MM/YY	18/12/20			18/12/20				

COMMENTS

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L20105270	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	39	29	Not Calculated
MI01MUG [Membrane Filtration]Faecal Coliform						
<1 CFU/100mL	<1	Accepted	Accepted	39	29	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	0.93 <i>0.88 - 1.12 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	0.66	0.66	0.00 % <i>0 - 50 %</i>
NU102 Total Phosphorus						
<0.002 mg/L	<0.002	0.048 <i>0.045 - 0.055 mg/L</i>	98 % Recovery <i>80 - 120 % Recovery</i>	0.019	0.019	B <i>0 - 0 %</i>
WC12MET Conductivity (mS/m)						
<0.1 mS/m	F	140.8 <i>139.3 - 143.3 mS/m</i>	E	515.4	514.1	0.25 % <i>0 - 20 %</i>
WC17NS BOD5						
<2 mg/L	<2	200 <i>139 - 257 mg/L</i>	E	72	77	6.71 % <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	93 85.1 - 101.5 mg/L	E			
WC44NS Total Suspended Solids						
<2 mg/L	F	49 42.5 - 57.5 mg/L	E	330	330	0.00 % 0 - 20 %

Extra Note:

F: Blank is not applicable for this analyte

E: Spike is not applicable for this analyte

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