



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



## Analytical Report 274880

**Issue Date:** 24/11/2022  
**Issued By :** Sydney Water Laboratory Services

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### **Sydney Water Approved Signatory**

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Greta Haddad, Nutrients Laboratory Supervisor

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>
PT 1 POLISHER	L22089369	1	14/11/2022	15/11/2022	22/11/2022	COBAR STP (WASTEWATER)
PT 2 TURKEYS	L22089370	1	14/11/2022	15/11/2022	22/11/2022	COBAR STP (WASTEWATER)
SPITTER BOX 1	L22089371	1	14/11/2022	15/11/2022	21/11/2022	COBAR STP (WASTEWATER)
SPITTER BOX 2	L22089372	1	14/11/2022	15/11/2022	21/11/2022	COBAR STP (WASTEWATER)
INLET	L22089373	1	14/11/2022	15/11/2022	21/11/2022	COBAR STP (WASTEWATER)

**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**

<b>Client Sample ID</b>		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET			
<b>Sampled Date</b>		14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM			
<b>Sample Number</b>		L22089369	L22089370	L22089371	L22089372	L22089373			
<b>CHEMISTRY</b>									
WC12MET : Conductivity									
Conductivity (mS/m)	mS/m	80.7	80.8	-	-	-			
Date of Performance	DD/MM/YY	16/11/22	16/11/22						
WC17NS : Biochemical oxygen demand									
BOD5	mg/L	11	4	120	110	29			
Date of Performance	DD/MM/YY	16/11/22	16/11/22	16/11/22	16/11/22	16/11/22			
WC26NS500 : Oil & Grease									
Oil & Grease	mg/L	<5	<5	-	-	-			
Date of Performance	DD/MM/YY	16/11/22	16/11/22						
WC44NS : Total, Fixed & Volatile Suspended Solids									
Total Suspended Solids	mg/L	32	8	-	-	-			
Date of Performance	DD/MM/YY	17/11/22	17/11/22						
<b>NUTRIENTS</b>									

"-" = Not required or refer to Laboratory comment

<b>Client Sample ID</b>		PT 1 POLISHER	PT 2 TURKEYS	SPITTER BOX 1	SPITTER BOX 2	INLET			
<b>Sampled Date</b>		14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM	14/11/2022 08:00:00 AM			
<b>Sample Number</b>		L22089369	L22089370	L22089371	L22089372	L22089373			
<b>NUTRIENTS</b>									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	4.68	4.65	-	-	-			
Total Phosphorus	mg/L	2.70	2.66	-	-	-			
Date of Performance	DD/MM/YY	16/11/22	16/11/22						

**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>
<b>NU102 Total Nitrogen</b>						
<0.05 mg/L	<0.05	1.01 <i>0.88 - 1.12 mg/L</i>	103 % Recovery <i>80 - 120 % Recovery</i>	0.29	0.27	B <i>0 - 0 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.047 <i>0.045 - 0.055 mg/L</i>	89 % Recovery <i>80 - 120 % Recovery</i>	0.023	0.022	4.44 % <i>0 - 50 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	141.0 <i>139.3 - 143.3 mS/m</i>	E	80.8	80.8	0.00 % <i>0 - 20 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	180 <i>139 - 257 mg/L</i>	E	29	29	0.00 % <i>0 - 50 %</i>
<b>WC26NS500 Oil &amp; Grease</b>						
<5 mg/L	<5	94 <i>85.1 - 101.5 mg/L</i>	E			
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	51 <i>42.5 - 57.5 mg/L</i>	E	4	4	B <i>0 - 0 %</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 Suspended Solids B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ