



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



## Analytical Report 292830

**Issue Date:** 19/10/2023  
**Issued By :** Sydney Water Laboratory Services

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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.

**SAMPLE SUMMARY**

<u>Client</u> <u>Sample ID</u>	<u>Sample</u> <u>Number</u>	<u>Sampling</u> <u>Procedure</u>	<u>Date</u> <u>Sampled</u>	<u>Date</u> <u>Received</u>	<u>Date</u> <u>Authorised</u>	<u>Description</u>
Pt 1 (Polisher)	L23081561	1	09/10/2023	10/10/2023	18/10/2023	Cobar STP (WASTE WATER)
Pt 2 (Turkeys)	L23081562	1	09/10/2023	10/10/2023	18/10/2023	Cobar STP (WASTE WATER)
Spitter Box 1	L23081563	1	09/10/2023	10/10/2023	18/10/2023	Cobar STP (WASTE WATER)
Spitter Box 2	L23081564	1	09/10/2023	10/10/2023	18/10/2023	Cobar STP (WASTE WATER)
S Inlet	L23081565	1	09/10/2023	10/10/2023	18/10/2023	Cobar STP (WASTE WATER)

**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	S Inlet			
<b>Sampled Date</b>	09/10/2023 07:30:00 AM	09/10/2023 08:00:00 AM	09/10/2023 08:25:00 AM	09/10/2023 08:00:00 AM	09/10/2023 07:07:00 AM			
<b>Sample Number</b>	L23081561	L23081562	L23081563	L23081564	L23081565			

**CHEMISTRY**

**WC12MET : Conductivity**

Conductivity (mS/m)	mS/m	145.3	140.6	-	-	-		
Date of Performance	DD/MM/YY	11/10/23	11/10/23					

**WC17NS : Biochemical oxygen demand**

BOD5	mg/L	4	<2	62	78	71		
Date of Performance	DD/MM/YY	11/10/23	11/10/23	11/10/23	11/10/23	11/10/23		

**WC26NS500 : Oil & Grease**

Oil & Grease	mg/L	<5	<5	-	-	-		
Date of Performance	DD/MM/YY	11/10/23	11/10/23					

**WC44NS : Total, Fixed & Volatile Suspended Solids**

Total Suspended Solids	mg/L	22	7	-	-	-		
Date of Performance	DD/MM/YY	12/10/23	12/10/23					

**MICRO**

"-" = Not required or refer to Laboratory comment

<b>Client Sample ID</b>		Pt 1 (Polisher)	Pt 2 (Turkeys)	Spitter Box 1	Spitter Box 2	S Inlet			
<b>Sampled Date</b>		09/10/2023 07:30:00 AM	09/10/2023 08:00:00 AM	09/10/2023 08:25:00 AM	09/10/2023 08:00:00 AM	09/10/2023 07:07:00 AM			
<b>Sample Number</b>		L23081561	L23081562	L23081563	L23081564	L23081565			
<b>MICRO</b>									
MI01 : Faecal Coliform and/or E. coli									
E.coli	CFU/100mL	-	~21	-	-	-			
Faecal Coliform	CFU/100mL	-	~32	-	-	-			
Date of Performance	D/M/Y H:M		10/10/23 16:01						
<b>NUTRIENTS</b>									
NU102 : Total Nitrogen & Total Phosphorus									
Total Nitrogen	mg/L	8.10	7.61	-	-	-			
Total Phosphorus	mg/L	2.50	1.98	-	-	-			
Date of Performance	DD/MM/YY	12/10/23	12/10/23						

(~): Counts of target colonies are outside the optimal precision range.

**COMMENTS**

<u>Sample ID</u>	<u>Comment Level</u>	<u>Method</u>	<u>Test</u>	<u>Comment</u>
L23081562	Method	MI01	-	Result confirmed. Sample processed outside of holding time, result may be affected.

**Analysis**

MI01

**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>
<b>MI01 [Membrane Filtration]E.coli</b>						
<1 CFU/100mL	<1	Accepted	Accepted	~21	~15	Not Calculated
<b>MI01 [Membrane Filtration]Faecal Coliform</b>						
<1 CFU/100mL	<1	Accepted	Accepted	~32	~22	Not Calculated

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	0.92 <i>0.88 - 1.12 mg/L</i>	93 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.27	0.27	B <i>0.0 - 0.0 %</i>
<b>NU102 Total Phosphorus</b>						
<0.002 mg/L	<0.002	0.050 <i>0.045 - 0.055 mg/L</i>	98 % Recovery <i>80.0 - 120.0 % Recovery</i>	0.009	0.009	B <i>0.0 - 0.0 %</i>
<b>WC12MET Conductivity (mS/m)</b>						
<0.1 mS/m	F	140.8 <i>139.3 - 143.3 mS/m</i>	E	145.3	145.2	0.69e-1 % <i>0.0 - 20.0 %</i>
<b>WC17NS BOD5</b>						
<2 mg/L	<2	200 <i>139.0 - 257.0 mg/L</i>	E	<2	<2	B <i>0.0 - 0.0 %</i>

LOQ	Blank	Control <i>Acceptance Criteria</i>	Spike <i>Acceptance Criteria</i>	Duplicate1	Duplicate2	RPD <i>Acceptance Criteria</i>
<b>WC26NS500 Oil &amp; Grease</b>						
<5 mg/L	<5	88 85.1 - 101.5 mg/L	E			
<b>WC44NS Total Suspended Solids</b>						
<2 mg/L	<2	51 42.5 - 57.5 mg/L	E	590	620	4.96 % 0.0 - 20.0 %

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

DUPLICATE BOD5 B: Duplicate RPD reject criteria is not applicable, results are <10 times LOQ