

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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KEMPSEY SHIRE COUNCIL  
WEST TROTTER  
P.O. BOX 3078  
WEST KEMPSEY NSW 2440

BATCHNUMBER: 23/0141  
No. of SAMPLES: 5  
DATE COLLECTED: 18/01/23  
DATE RECEIVED: 18/01/23  
TIME RECEIVED: 16:34  
DATE TESTING COMMENCED:  
18/01/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/0141/1	South Kempsey TP
23/0141/2	Crescent Head CW
23/0141/3	North St Final TP
23/0141/4	Hat Head C. Well
23/0141/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/0141/1	23/0141/2	23/0141/3	23/0141/4	METHOD NO
pH	pH unit	7.3	7.5	7.6	7.5	APHA 4500-H+ B
Conductivity	µS/cm	-	1,010	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	429	649	411	756	EL7B
Turbidity	NTU	-	0.75	-	0.80	APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	130	APHA 2320 B
Total Suspended Solids	mg/L	19	<2	14	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	13	<2	8	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	0.15	2.41	<0.02	2.54	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.30	0.15	<0.02	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	3.79	3.78	1.31	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	6.63	7.18	3.12	2.85	APHA 4500-P J
Total Phosphorus	mg/L	6.45	0.15	0.85	0.06	APHA 4500-P J
Potassium	mg/L	-	-	-	24	EL9A
Chloride	mg/L	-	-	-	150	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	37	-	APHA 10200 H



Accredited for compliance with ISO/IEC 17025 - Testing  
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	23/0141/1	23/0141/2	23/0141/3	23/0141/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	1,500	<2	150	0	ELM3

ANALYSIS	UNITS	23/0141/5				METHODNO
pH	pH unit	-				APHA 4500-H+ B
Conductivity	µS/cm	-				APHA 2510 B
Total Dissolved Solids	mg/L	-				EL7B
Turbidity	NTU	-				APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-				APHA 2320 B
Total Suspended Solids	mg/L	-				APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-				APHA 5210 B
Nitrate Nitrogen	mg/L	-				APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-				APHA 4500-NO 2
Ammonia Nitrogen	mg/L	-				APHA 4500-NH3 H
Total Nitrogen	mg/L	-				APHA 4500-P J
Total Phosphorus	mg/L	-				APHA 4500-P J
Potassium	mg/L	-				EL9A
Chloride	mg/L	-				EL10
Oil & Grease	mg/L	-				EL23A
Chlorophyll-a	µg/L	-				APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	800				ELM3

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 27/01/23

Approved:



Michael Nolan  
Technical Officer



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