

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 23/0556
No. of SAMPLES: 5
DATE COLLECTED: 15/03/23
DATE RECEIVED: 15/03/23
TIME RECEIVED: 16:30
DATE TESTING COMMENCED:
15/03/23

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/0556/1	South Kempsey TP
23/0556/2	Crescent Head CW
23/0556/3	North St Final TP
23/0556/4	Hat Head C. Well
23/0556/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/0556/1	23/0556/2	23/0556/3	23/0556/4	METHOD NO
pH	pH unit	7.0	7.2	7.5	7.4	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	793	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	262	508	357	654	EL7B
Turbidity	NTU	-	1.6	-	0.60	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	83	APHA 2320 B
Total Suspended Solids	mg/L	4	<2	33	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	<2	11	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	2.03	4.76	6.35	0.26	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.39	0.05	0.75	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	3.93	0.14	1.22	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	7.05	5.61	9.81	0.92	APHA 4500-P J
Total Phosphorus	mg/L	2.45	0.16	0.36	0.03	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	121	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	86	-	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	23/0556/1	23/0556/2	23/0556/3	23/0556/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	2,140	0	1,950	760	ELM3

ANALYSIS	UNITS	23/0556/5				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 ₃ /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	7,800				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: 23/03/23



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Approved:

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia