

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
PETER BRADFORD
P.O. BOX 3078
WEST KEMPSEY NSW 2440

BATCHNUMBER: 22/2650
No. of SAMPLES: 5
DATE COLLECTED: 21/12/22
DATE RECEIVED: 21/12/22
TIME RECEIVED: 16:30
DATE TESTING COMMENCED:
21/12/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/2650/1	South Kempsey TP
22/2650/2	Crescent Head CW
22/2650/3	North St Final TP
22/2650/4	Hat Head C. Well
22/2650/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/2650/1	22/2650/2	22/2650/3	22/2650/4	METHOD NO
pH	pH unit	7.1	7.3	7.4	7.4	APHA 4500-H+ B
Conductivity	$\mu\text{S/cm}$	-	962	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	513	615	391	770	EL7B
Turbidity	NTU	-	1.4	-	0.70	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	123	APHA 2320 B
Total Suspended Solids	mg/L	7	4	30	2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	11	<2	15	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	<0.02	1.58	<0.02	4.15	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	<0.02	0.25	0.08	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	3.51	0.52	0.88	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	6.80	3.95	6.08	6.42	APHA 4500-P J
Total Phosphorus	mg/L	7.34	0.18	1.23	0.07	APHA 4500-P J
Potassium	mg/L	-	-	-	23	EL9A
Chloride	mg/L	-	-	-	138	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g/L}$	-	-	244	-	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	22/2650/1	22/2650/2	22/2650/3	22/2650/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	1,160	TNTC* >1000	50	1	ELM3

ANALYSIS	UNITS	22/2650/5				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	300				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.

* TNTC denotes Too Numerous To Count.

Report Date: 9/01/23



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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