

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 2



KEMPSEY SHIRE COUNCIL
GREG HICKSON
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WEST KEMPSEY NSW 2440

BATCHNUMBER: 23/1285
No. of SAMPLES: 5
DATE COLLECTED: 21/06/23
DATE RECEIVED: 21/06/23
TIME RECEIVED: 16:30
DATE TESTING COMMENCED:
21/06/23

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/1285/1	South Kempsey TP
23/1285/2	Crescent Head CW
23/1285/3	North St Final TP
23/1285/4	Hat Head C. Well
23/1285/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/1285/1	23/1285/2	23/1285/3	23/1285/4	METHOD NO
pH	pH unit	7.2	7.1	7.4	7.2	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	873	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	453	559	459	608	EL7B
Turbidity	NTU	-	0.30	-	0.20	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	101	APHA 2320 B
Total Suspended Solids	mg/L	<2	2	12	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	<2	3	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	6.47	0.11	3.48	8.70	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.18	<0.02	0.78	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.73	0.17	4.87	0.03	APHA 4500-NH3 H
Total Nitrogen	mg/L	9.92	0.96	10.4	8.73	APHA 4500-P J
Total Phosphorus	mg/L	4.00	0.11	0.14	0.04	APHA 4500-P J
Potassium	mg/L	-	-	-	24	EL9A
Chloride	mg/L	-	-	-	121	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	3	-	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	23/1285/1	23/1285/2	23/1285/3	23/1285/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	420	<2	50	0	ELM3

ANALYSIS	UNITS	23/1285/5				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	8,000				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: 4/07/23



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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