

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 22/0846
No. of SAMPLES: 5
DATE COLLECTED: 27/04/22
DATE RECEIVED: 27/04/22
TIME RECEIVED: 17:00
DATE TESTING COMMENCED:
27/04/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0846/1	South Kempsey TP
22/0846/2	Crescent Head CW
22/0846/3	North St Final TP
22/0846/4	Hat Head C. Well
22/0846/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/0846/1	22/0846/2	22/0846/3	22/0846/4	METHOD NO
pH	pH unit	6.9	7.0	6.9	7.4	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	859	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	227	550	260	653	EL7B
Turbidity	NTU	-	4.9	-	0.60	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	161	APHA 2320 B
Total Suspended Solids	mg/L	4	7	6	3	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	4	10	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	0.61	20.9	3.21	0.06	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.10	<0.02	0.54	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.15	0.02	2.12	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	3.38	21.5	7.50	0.72	APHA 4500-P J
Total Phosphorus	mg/L	1.26	0.30	0.19	0.06	APHA 4500-P J
Potassium	mg/L	-	-	-	19	EL9A
Chloride	mg/L	-	-	-	124	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	62	-	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	22/0846/1	22/0846/2	22/0846/3	22/0846/4	METHODNO
Faecal Coliforms	cfu/100mL	2,560	39,000	190	0	ELM3

ANALYSIS	UNITS	22/0846/5				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
Faecal Coliforms	cfu/100mL	111,000				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 membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 12/05/22

Approved:



Michael Nolan
Technical Officer



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