

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 22/0350
No. of SAMPLES: 5
DATE COLLECTED: 16/02/22
DATE RECEIVED: 16/02/22
TIME RECEIVED: 17:05
DATE TESTING COMMENCED:
16/02/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0350/1	South Kempsey TP
22/0350/2	Crescent Head CW
22/0350/3	North St Final TP
22/0350/4	Hat Head C. Well
22/0350/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/0350/1	22/0350/2	22/0350/3	22/0350/4	METHOD NO
pH	pH unit	6.9	6.8	7.1	7.6	APHA 4500-H+ B
Conductivity	$\mu\text{S/cm}$	-	853	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	306	546	297	696	EL7B
Turbidity	NTU	-	1.9	-	0.60	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	172	APHA 2320 B
Total Suspended Solids	mg/L	3	2	7	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	2	9	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	1.36	0.25	1.24	0.32	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.06	<0.02	0.83	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.52	0.05	1.10	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	4.34	1.53	3.98	0.89	APHA 4500-P J
Total Phosphorus	mg/L	2.32	0.10	0.16	0.03	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	123	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g/L}$	-	-	29	-	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	22/0350/1	22/0350/2	22/0350/3	22/0350/4	METHODNO
Faecal Coliforms	cfu/100mL	110	2	230	6	ELM3

ANALYSIS	UNITS	22/0350/5				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	420				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: 24/02/22



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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