

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
BARRY YOUNG
P.O. BOX 78
WEST KEMPSEY NSW 2440

BATCHNUMBER: 22/0747
No. of SAMPLES: 12
DATE COLLECTED: 13/04/22
DATE RECEIVED: 13/04/22
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
13/04/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0747/1	South Kempsey TP
22/0747/2	Crescent Head CW
22/0747/3	Gladstone TP
22/0747/4	Frederickton TP
22/0747/5	South West Rocks CW
22/0747/6	North St Final TP
22/0747/7	Hat Head C Well
22/0747/8	South Kempsey STP Head Wall Day Pond
22/0747/9	Upstream Gladstone TP
22/0747/10	Downstream Gladstone TP
22/0747/11	Upstream Frederickton TP
22/0747/12	Downstream Frederickton TP

ANALYSIS	UNITS	22/0747/1	22/0747/2	22/0747/3	22/0747/4	METHOD NO
pH	pH unit	6.6	6.9	8.7	7.1	APHA 4500-H+ B
Conductivity	µS/cm	-	849	-	-	APHA 2510 B
Turbidity	NTU	-	0.70	-	-	APHA 2130 B
Transmittance	%	-	-	61.4	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg CaCO ₃ /L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	4	3	14	4	APHA 2540 D
Biochem Oxygen Demand (BOD ₅)	mg/L	<2	<2	6	<2	APHA 5210 B



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	22/0747/1	22/0747/2	22/0747/3	22/0747/4	METHODNO
Nitrate Nitrogen	mg/L	-	0.21	-	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.95	0.27	0.10	0.36	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.51	1.22	1.48	2.42	APHA 4500-P J
Total Phosphorus	mg/L	0.93	0.06	1.80	2.36	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	92	8	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	420	0	210	100	ELM 3

ANALYSIS	UNITS	22/0747/5	22/0747/6	22/0747/7	22/0747/8	METHODNO
pH	pH unit	6.9	6.9	7.3	-	APHA 4500-H+ B
Conductivity	µS/cm	485	-	1,030	-	APHA 2510 B
Turbidity	NTU	2.8	-	1.4	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	659	-	EL7B
Alkalinity	mg CaCO ₃ /L	39	-	151	-	APHA 2320 B
Total Suspended Solids	mg/L	8	11	<2	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	2	5	<2	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	1.25	2.83	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	0.32	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.04	3.71	0.02	-	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.56	5.52	3.02	-	APHA 4500-P J
Total Phosphorus	mg/L	0.28	0.27	0.08	-	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	-	EL23A
Chlorophyll-a	µg/L	-	17	-	-	APHA 10200 H
Potassium	mg/L	13	-	18	-	EL9A
Chloride	mg/L	71	-	116	-	EL10
Arsenic	mg/L	<0.012	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	14	<10	12	340	ELM 3



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ANALYSIS	UNITS	22/0747/9	22/0747/10	22/0747/11	22/0747/12	METHODNO
pH	pH unit	-	-	-	-	APHA 4500-H+ B
Conductivity	µS/cm	-	-	-	-	APHA 2510 B
Turbidity	NTU	-	-	-	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
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
Oil & Grease	mg/L	-	-	-	-	EL23A
Chlorophyll-a	µg/L	-	-	-	-	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	220	100	175	70	ELM 3

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: 26/04/22



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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