

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 3



KEMPSEY SHIRE COUNCIL
BARRY YOUNG
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BATCHNUMBER: 22/0044
No. of SAMPLES: 12
DATE COLLECTED: 06/01/22
DATE RECEIVED: 06/01/22
TIME RECEIVED: 12:25
DATE TESTING COMMENCED:
06/01/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0044/1	South Kempsey TP
22/0044/2	Crescent Head CW
22/0044/3	Gladstone TP
22/0044/4	Frederickton TP
22/0044/5	South West Rocks CW
22/0044/6	North St Final TP
22/0044/7	Hat Head C Well
22/0044/8	South Kempsey STP Head Wall Day Pond
22/0044/9	Upstream Gladstone TP
22/0044/10	Downstream Gladstone TP
22/0044/11	Upstream Frederickton TP
22/0044/12	Downstream Frederickton TP

ANALYSIS	UNITS	22/0044/1	22/0044/2	22/0044/3	22/0044/4	METHOD NO
pH	pH unit	7.1	6.9	8.5	7.7	APHA 4500-H+ B
Conductivity	µS/cm	-	708	-	-	APHA 2510 B
Turbidity	NTU	-	0.65	-	-	APHA 2130 B
Transmittance	%	-	-	66.0	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg CaCO ₃ /L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	12	<2	9	24	APHA 2540 D
Biochem Oxygen Demand (BOD ₅)	mg/L	6	<2	3	6	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	22/0044/1	22/0044/2	22/0044/3	22/0044/4	METHODNO
Nitrate Nitrogen	mg/L	-	4.87	-	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.50	0.11	<0.02	0.19	APHA 4500-NH3 H
Total Nitrogen	mg/L	4.35	5.18	0.72	1.64	APHA 4500-P J
Total Phosphorus	mg/L	3.95	0.04	6.33	7.38	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	20	130	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	310	0	100	2,100	ELM 3

ANALYSIS	UNITS	22/0044/5	22/0044/6	22/0044/7	22/0044/8	METHODNO
pH	pH unit	7.2	7.5	7.5	-	APHA 4500-H+ B
Conductivity	µS/cm	654	-	1,230	-	APHA 2510 B
Turbidity	NTU	3.3	-	1.3	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	788	-	EL7B
Alkalinity	mg CaCO ₃ /L	64	-	133	-	APHA 2320 B
Total Suspended Solids	mg/L	9	27	4	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	4	14	2	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	2.42	1.50	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	0.64	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.25	0.82	<0.02	-	APHA 4500-NH3 H
Total Nitrogen	mg/L	1.78	4.82	2.07	-	APHA 4500-P J
Total Phosphorus	mg/L	0.36	0.97	0.15	-	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	-	EL23A
Chlorophyll-a	µg/L	-	199	-	-	APHA 10200 H
Potassium	mg/L	16	-	25	-	EL9A
Chloride	mg/L	99	-	182	-	EL10
Arsenic	mg/L	<0.012	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	10	900	1	1,020	ELM 3



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ANALYSIS	UNITS	22/0044/9	22/0044/10	22/0044/11	22/0044/12	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	70	120	880	120	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: 17/01/22



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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