

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 3



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

BATCHNUMBER: 22/0444  
No. of SAMPLES: 12  
DATE COLLECTED: 02/03/22  
DATE RECEIVED: 02/03/22  
TIME RECEIVED: 12:00  
DATE TESTING COMMENCED:  
02/03/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0444/1	South Kempsey TP
22/0444/2	Crescent Head CW
22/0444/3	Gladstone TP
22/0444/4	Frederickton TP
22/0444/5	South West Rocks CW
22/0444/6	North St Final TP
22/0444/7	Hat Head C Well
22/0444/8	South Kempsey STP Head Wall Day Pond
22/0444/9	Upstream Gladstone TP
22/0444/10	Downstream Gladstone TP
22/0444/11	Upstream Frederickton TP
22/0444/12	Downstream Frederickton TP

ANALYSIS	UNITS	22/0444/1	22/0444/2	22/0444/3	22/0444/4	METHOD NO
pH	pH unit	6.6	7.1	7.6	7.0	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	430	-	-	APHA 2510 B
Turbidity	NTU	-	47	-	-	APHA 2130 B
Transmittance	%	-	-	59.7	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L					APHA 2540 D
Biochem Oxygen Demand (BOD <sub>5</sub> )	mg/L					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	22/0444/1	22/0444/2	22/0444/3	22/0444/4	METHODNO
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	6,450	1,800	TNTC* >5000	TNTC* >10000	ELM 3

ANALYSIS	UNITS	22/0444/5	22/0444/6	22/0444/7	22/0444/8	METHODNO
pH	pH unit	6.9	7.0	7.5	-	APHA 4500-H+ B
Conductivity	µS/cm	373	-	999	-	APHA 2510 B
Turbidity	NTU	5.1	-	0.80	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	639	-	EL7B
Alkalinity	mg CaCO <sub>3</sub> /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	14	TNTC* >2500	6	6,700	ELM 3



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ANALYSIS	UNITS	22/0444/9	22/0444/10	22/0444/11	22/0444/12	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 <sub>3</sub> /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	550	700	550	600	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.

\* TNTC denotes Too Numerous To Count.

Report Date: 3/03/22



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