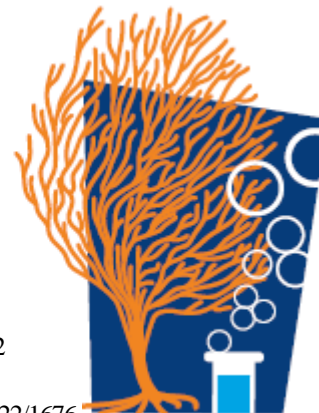


# COFFS HARBOUR LABORATORY

## Environmental Analysis

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

BATCHNUMBER: 22/1676  
No. of SAMPLES: 5  
DATE COLLECTED: 17/08/22  
DATE RECEIVED: 17/08/22  
TIME RECEIVED: 16:30  
DATE TESTING COMMENCED:  
17/08/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1676/1	South Kempsey TP
22/1676/2	Crescent Head CW
22/1676/3	North St Final TP
22/1676/4	Hat Head C. Well
22/1676/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/1676/1	22/1676/2	22/1676/3	22/1676/4	METHOD NO
pH	pH unit	7.2	7.0	7.2	7.7	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	775	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	435	496	391	775	EL7B
Turbidity	NTU	-	0.65	-	0.55	APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	215	APHA 2320 B
Total Suspended Solids	mg/L	5	8	17	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	<2	6	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	1.96	0.70	6.11	0.86	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.05	0.15	0.36	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.22	0.44	5.66	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	4.24	2.11	14.5	1.61	APHA 4500-P J
Total Phosphorus	mg/L	3.65	0.06	0.39	0.07	APHA 4500-P J
Potassium	mg/L	-	-	-	20	EL9A
Chloride	mg/L	-	-	-	110	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	2	-	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	22/1676/1	22/1676/2	22/1676/3	22/1676/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	30	0	100	0	ELM3

ANALYSIS	UNITS	22/1676/5				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 <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
Potassium	mg/L	-				EL9A
Chloride	mg/L	-				EL10
Oil & Grease	mg/L	-				EL23A
Chlorophyll-a	µg/L	-				APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	<2				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.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 24/08/22



Accredited for compliance with ISO/IEC 17025 - Testing  
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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