

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 2



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

BATCHNUMBER: 22/1053
No. of SAMPLES: 5
DATE COLLECTED: 25/05/22
DATE RECEIVED: 25/05/22
TIME RECEIVED: 16:20
DATE TESTING COMMENCED:
25/05/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1053/1	South Kempsey TP
22/1053/2	Crescent Head CW
22/1053/3	North St Final TP
22/1053/4	Hat Head C. Well
22/1053/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/1053/1	22/1053/2	22/1053/3	22/1053/4	METHOD NO
pH	pH unit	6.8	7.2	7.1	7.5	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	447	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	177	286	246	629	EL7B
Turbidity	NTU	-	3.1	-	0.75	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	166	APHA 2320 B
Total Suspended Solids	mg/L	<2	<2	9	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	<2	5	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	1.89	1.52	4.16	1.30	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.18	0.02	0.35	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.18	0.05	3.20	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	3.53	2.31	8.59	2.56	APHA 4500-P J
Total Phosphorus	mg/L	0.91	0.13	0.34	0.09	APHA 4500-P J
Potassium	mg/L	-	-	-	19	EL9A
Chloride	mg/L	-	-	-	109	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	6	-	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	22/1053/1	22/1053/2	22/1053/3	22/1053/4	METHODNO
Faecal Coliforms	cfu/100mL	390	202	1,750	6	ELM3

ANALYSIS	UNITS	22/1053/5				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	11,400				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: 2/06/22



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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