

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
BLAKE GIDDY
P.O. BOX 3078
WEST KEMPSEY NSW 2440

BATCHNUMBER: 25/0599
No. of SAMPLES: 8
DATE COLLECTED: 12/03/25
DATE RECEIVED: 12/03/25
TIME RECEIVED: 12:30
DATE TESTING COMMENCED:
12/03/25

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
25/0599/1	South Kempsey TP
25/0599/2	Crescent Head CW
25/0599/3	Gladstone TP
25/0599/4	Frederickton TP
25/0599/5	South West Rocks CW
25/0599/6	West Kempsey TP
25/0599/7	Hat Head C Well
25/0599/8	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	25/0599/1	25/0599/2	25/0599/3	25/0599/4	METHOD NO
pH	pH unit	6.7	6.7	7.5	7.1	APHA 4500-H+ B
Conductivity	µS/cm	-	884	-	-	APHA 2510 B
Turbidity	NTU	-	1.4	-	-	APHA 2130 B
Transmittance	%	-	-	53.7	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg CaCO ₃ /L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	7	3	11	5	APHA 2540 D
Biochem Oxygen Demand (BOD ₅)	mg/L	3	<2	3	3	APHA 5210 B
Nitrate Nitrogen	mg/L	-	11.8	-	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO2
Ammonia Nitrogen	mg/L	2.77	0.10	0.65	1.54	APHA 4500-NH3H
Total Nitrogen	mg/L	4.57	11.9	2.72	3.17	APHA 4500-P J



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ANALYSIS	UNITS	25/0599/1	25/0599/2	25/0599/3	25/0599/4	METHODNO
Total Phosphorus	mg/L	0.87	0.10	4.47	4.02	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	9	7	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Thermotolerant Coliforms	cfu/100mL	27,000	6	22,500	16,600	ELM 3

ANALYSIS	UNITS	25/0599/5	25/0599/6	25/0599/7	25/0599/8	METHODNO
pH	pH unit	7.0	6.8	7.7	-	APHA 4500-H+ B
Conductivity	µS/cm	624	-	939	-	APHA 2510 B
Turbidity	NTU	2.1	-	1.1	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	601	-	EL7B
Alkalinity	mg CaCO ₃ /L	34	-	127	-	APHA 2320 B
Total Suspended Solids	mg/L	<2	14	<2	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	15	<2	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	1.63	0.13	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	3.99	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.03	0.48	<0.02	-	APHA 4500-NH3H
Total Nitrogen	mg/L	10.5	7.09	0.79	-	APHA 4500-P J
Total Phosphorus	mg/L	1.46	0.32	0.13	-	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	-	EL23A
Chlorophyll-a	µg/L	-	51	-	-	APHA 10200 H
Potassium	mg/L	16	-	19	-	EL9A
Chloride	mg/L	106	-	114	-	EL10
Arsenic	mg/L	<0.012	-	-	-	EL9A
Thermotolerant Coliforms	cfu/100mL	0	2,100	21	126,000	ELM 3

ANALYSIS	UNITS	25/0599/1	25/0599/2	25/0599/3	25/0599/4	METHODNO
PFAS*						
PFBA(375-22-4)	ug/L	<0.05	<0.05	<0.05	<0.05	NR70
PFPeA(2706-90-3)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70
PFHxA(307-24-4)	ug/L	0.011	0.011	<0.01	<0.01	NR70
PFHpA(375-85-9)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFOA(335-67-1)	ug/L	<0.01	0.011	<0.01	0.026	NR70
PFNA(375-95-1)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFDA(335-76-2)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFUdA(2058-94-8)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFDoA(307-55-1)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFTTrDA(72629-94-8)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70
PFTeDA(376-06-7)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70
PFHxDA(67905-19-5)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70



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ANALYSIS	UNITS	25/0599/1	25/0599/2	25/0599/3	25/0599/4	METHODNO
PFODO(16517-11-6)	ug/L	<0.05	<0.05	<0.05	<0.05	NR70
FOUEA(70887-84-2)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFDS(335-77-3)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFPeS(2706-91-4)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFHxS(355-46-4)	ug/L	0.012	<0.01	<0.01	<0.01	NR70
PFHpS(375-92-8)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFOS(1763-23-1)	ug/L	0.027	<0.02	<0.02	0.031	NR70
PFNS(68259-12-1)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFBS(375-73-5)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
PFOSA(754-91-6)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
N-MeFOSA(31506-32-8)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70
N-EtFOSA(4151-50-2)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70
N-MeFOSAA(2355-31-9)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
N-EtFOSAA(2991-50-6)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
N-MeFOSE(24448-09-7)	ug/L	<0.05	<0.05	<0.05	<0.05	NR70
N-EtFOSE(1691-99-2)	ug/L	<0.05	<0.05	<0.05	<0.05	NR70
4:2FTS(757124-72-4)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
6:2FTS(27619-97-2)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
8:2FTS(39108-34-4)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
10:2FTS(120226-60-0)	ug/L	<0.01	<0.01	<0.01	<0.01	NR70
8:2diPAP(678-41-1)	ug/L	<0.02	<0.02	<0.02	<0.02	NR70

ANALYSIS	UNITS	25/0599/5	25/0599/6	25/0599/7	25/0599/8	METHODNO
PFAS*						
PFBA(375-22-4)	ug/L	<0.05	<0.05	<0.05	-	NR70
PFPeA(2706-90-3)	ug/L	<0.02	<0.02	<0.02	-	NR70
PFHxA(307-24-4)	ug/L	0.020	<0.01	<0.01	-	NR70
PFHpA(375-85-9)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFOA(335-67-1)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFNA(375-95-1)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFDA(335-76-2)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFUdA(2058-94-8)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFDoA(307-55-1)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFTTrDA(72629-94-8)	ug/L	<0.02	<0.02	<0.02	-	NR70
PFTeDA(376-06-7)	ug/L	<0.02	<0.02	<0.02	-	NR70
PFHxDA(67905-19-5)	ug/L	<0.02	<0.02	<0.02	-	NR70
PFODO(16517-11-6)	ug/L	<0.05	<0.05	<0.05	-	NR70
FOUEA(70887-84-2)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFDS(335-77-3)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFPeS(2706-91-4)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFHxS(355-46-4)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFHpS(375-92-8)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFOS(1763-23-1)	ug/L	<0.02	<0.02	<0.02	-	NR70
PFNS(68259-12-1)	ug/L	<0.01	<0.01	<0.01	-	NR70
PFBS(375-73-5)	ug/L	<0.01	<0.01	<0.01	-	NR70



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ANALYSIS	UNITS	25/0599/5	25/0599/6	25/0599/7	25/0599/8	METHODNO
PFOSA (754-91-6)	ug/L	<0.01	<0.01	<0.01	-	NR70
N-MeFOSA (31506-32-8)	ug/L	<0.02	<0.02	<0.02	-	NR70
N-EtFOSA (4151-50-2)	ug/L	<0.02	<0.02	<0.02	-	NR70
N-MeFOSAA (2355-31-9)	ug/L	<0.01	<0.01	<0.01	-	NR70
N-EtFOSAA (2991-50-6)	ug/L	<0.01	<0.01	<0.01	-	NR70
N-MeFOSE (24448-09-7)	ug/L	<0.05	<0.05	<0.05	-	NR70
N-EtFOSE (1691-99-2)	ug/L	<0.05	<0.05	<0.05	-	NR70
4:2 FTS (757124-72-4)	ug/L	<0.01	<0.01	<0.01	-	NR70
6:2 FTS (27619-97-2)	ug/L	<0.01	<0.01	<0.01	-	NR70
8:2 FTS (39108-34-4)	ug/L	<0.01	<0.01	<0.01	-	NR70
10:2 FTS (120226-60-0)	ug/L	<0.01	<0.01	<0.01	-	NR70
8:2 diPAP (678-41-1)	ug/L	<0.02	<0.02	<0.02	-	NR70



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Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2023, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Measurement Uncertainty is available upon request.

*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN1459492.

Report Date: 27/03/25



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Approved:

A handwritten signature in black ink, appearing to read "Shane Ewart".

Shane Ewart
Technical Supervisor
Microbiology and Chemistry

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