

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1156  
No. of SAMPLES: 5  
DATE COLLECTED: 05-10/04/24  
DATE RECEIVED: 10/05/24  
TIME RECEIVED: 15:10  
DATE TESTING COMMENCED:  
10/05/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1156/1	1 - UPSTREAM OF LANDFILL
24/1156/2	2 - WETLAND
24/1156/3	3 - SEDIMENT POND
24/1156/4	S1
24/1156/5	S5

ANALYSIS	UNITS	24/1156/1	24/1156/2	24/1156/3	24/1156/4	METHOD NO
pH	pH unit	6.6	6.0	7.5	7.5	APHA 4500-H+ B
Total Suspended Solids	mg/L	6	5	5	5	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	<4	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	15	7	138	-	APHA 2320 B
Ammonia Nitrogen	mg/L	<0.02	<0.02	0.08	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.03	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.90	0.57	1.12	-	EL16F
Total Nitrogen	mg/L	0.90	0.57	1.15	-	EL30F
Calcium	mg/L	4.5	5.1	46	-	EL9A
Potassium	mg/L	1.8	1.3	11	-	EL9A



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Accreditation Number: 12359

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ANALYSIS	UNITS	24/1156/5				METHODNO
pH	pH unit	7.5				APHA 4500-H+ B
Total Suspended Solids	mg/L	17				APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-				APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	-				APHA 2320 B
Ammonia Nitrogen	mg/L	-				EL13F
Nitrate Nitrogen	mg/L	-				EL15F
Total Kjeldahl Nitrogen	mg/L	-				EL16F
Total Nitrogen	mg/L	-				EL30F
Calcium	mg/L	-				EL9A
Potassium	mg/L	-				EL9A

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

Report Date: 20/05/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1218  
No. of SAMPLES: 3  
DATE COLLECTED: 11-13/05/24  
DATE RECEIVED: 17/05/24  
TIME RECEIVED: 13:30  
DATE TESTING COMMENCED:  
17/05/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1218/1	S1
24/1218/2	S2
24/1218/3	S3

ANALYSIS	UNITS	24/1218/1	24/1218/2	24/1218/3	METHOD NO
Total Suspended Solids	mg/L	28	25	28	APHA 2540 D

#### Comments

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Measurement Uncertainty is available upon request.

Report Date: 20/05/24



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Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRE COUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 21/1083  
No. of SAMPLES: 5  
DATE COLLECTED: 11,13,14/05/21  
DATE RECEIVED: 14/05/21  
TIME RECEIVED: 14:00  
DATE TESTING COMMENCED:  
14/05/21

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
21/1083/1	S38(11/05/21)
21/1083/2	S39(13/05/21)
21/1083/3	UPSTREAM OF LANDFILL (14/05/21)
21/1083/4	SEDIMENT PONDS (14/05/21)
21/1083/5	WETLAND (14/05/21)

ANALYSIS	UNITS	21/1083/1	21/1083/2	21/1083/3	21/1083/4	METHOD NO
pH	pH unit	7.1	7.1	6.4	7.0	APHA 4500-H+ B
Total Suspended Solids	mg/L	22	69	12	30	APHA 2540 D
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	27	67	APHA 2320 B
Biochem Oxygen Demand (BOD5)	mg/L	-	-	<4	<4	APHA 5210 B

ANALYSIS	UNITS	21/1083/5				METHOD NO
pH	pH unit	6.3				APHA 4500-H+ B
Total Suspended Solids	mg/L	18				APHA 2540 D
Alkalinity	mg CaCO <sub>3</sub> /L	21				APHA 2320 B
Biochem Oxygen Demand (BOD5)	mg/L	<4				APHA 5210 B



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

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ANALYSIS	UNITS	21/1083/1	21/1083/2	21/1083/3	21/1083/4	METHODNO
<b>NUTRIENT SUITE</b>						
Nitrate Nitrogen	mg/L	-	-	<0.02	0.12	EL15F
Ammonia Nitrogen	mg/L	-	-	0.04	0.41	EL13F
Total Kjeldahl Nitrogen	mg/L	-	-	0.69	1.20	EL16F
Total Nitrogen	mg/L	-	-	0.69	1.35	EL30F
<b>Metal Suite Internal</b>						
Potassium	mg/L	-	-	1.9	8.9	EL9A
Calcium	mg/L	-	-	6.4	20	EL9A

ANALYSIS	UNITS	21/1083/5				METHODNO
<b>NUTRIENT SUITE</b>						
Nitrate Nitrogen	mg/L	<0.02				EL15F
Ammonia Nitrogen	mg/L	<0.02				EL13F
Total Kjeldahl Nitrogen	mg/L	0.82				EL16F
Total Nitrogen	mg/L	0.82				EL30F
<b>Metal Suite Internal</b>						
Potassium	mg/L	2.2				EL9A
Calcium	mg/L	5.9				EL9A

### 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: 24/05/21

Approved:



Michael Nolan  
Technical Officer



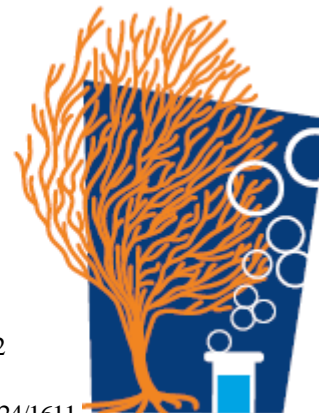
Accredited for compliance with ISO/IEC 17025 - Testing  
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1611  
No. of SAMPLES: 8  
DATE COLLECTED: 03-10/07/24  
DATE RECEIVED: 10/07/24  
TIME RECEIVED: 09:30  
DATE TESTING COMMENCED:  
10/07/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1611/1	1 - UPSTREAM OF LANDFILL - (10/07/24)
24/1611/2	2 - WETLAND - (10/07/24)
24/1611/3	3 - SEDIMENT POND - (10/07/24)
24/1611/4	S1 - (03/07/24)
24/1611/5	S2 - (04/07/24)
24/1611/6	S3 - (05/07/24)
24/1611/7	S4 - (06/07/24)
24/1611/8	S5 - (07/07/24)

ANALYSIS	UNITS	24/1611/1	24/1611/2	24/1611/3	24/1611/4	METHOD NO
pH	pH unit	6.6	6.9	7.4	7.4	APHA 4500-H+ B
Total Suspended Solids	mg/L	7	114	4	10	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	<4	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	26	51	117	-	APHA 2320 B
Ammonia Nitrogen	mg/L	0.02	0.09	0.64	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.24	0.33	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.69	1.61	1.67	-	EL16F
Total Nitrogen	mg/L	0.69	1.87	2.07	-	EL30F
Calcium	mg/L	6.4	15	42	-	EL9A
Potassium	mg/L	1.2	2.7	8.9	-	EL9A



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ANALYSIS	UNITS	24/1611/5	24/1611/6	24/1611/7	24/1611/8	METHODNO
pH	pH unit	7.3	7.3	7.3	7.3	APHA 4500-H+ B
Total Suspended Solids	mg/L	14	11	10	7	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-	-	-	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	-	APHA 2320 B
Ammonia Nitrogen	mg/L	-	-	-	-	EL13F
Nitrate Nitrogen	mg/L	-	-	-	-	EL15F
Total Kjeldahl Nitrogen	mg/L	-	-	-	-	EL16F
Total Nitrogen	mg/L	-	-	-	-	EL30F
Calcium	mg/L	-	-	-	-	EL9A
Potassium	mg/L	-	-	-	-	EL9A

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

Report Date: 17/07/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 22/0500  
No. of SAMPLES: 6  
DATE COLLECTED: 04-10/03/22  
DATE RECEIVED: 10/03/22  
TIME RECEIVED: 15:10  
DATE TESTING COMMENCED:  
10/03/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0500/1	S1 - 04/03/22
22/0500/2	S2 - 05/03/22
22/0500/3	S3 - 06/03/22
22/0500/4	S4 - 07/03/22
22/0500/5	S5 - 09/03/22
22/0500/6	S6 - 10/03/22

ANALYSIS	UNITS	22/0500/1	22/0500/2	22/0500/3	22/0500/4	METHODNO
pH	pH unit	6.6	6.6	6.6	6.7	APHA 4500-H+ B
Total Suspended Solids	mg/L	6	5	6	48	APHA 2540 D

ANALYSIS	UNITS	22/0500/5	22/0500/6			METHODNO
pH	pH unit	6.5	6.6			APHA 4500-H+ B
Total Suspended Solids	mg/L	12	8			APHA 2540 D

#### 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: 11/03/22

Approved:

Michael Nolan  
Technical Officer



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

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 22/0165  
No. of SAMPLES: 7  
DATE COLLECTED: 20-24/01/22  
DATE RECEIVED: 24/01/22  
TIME RECEIVED: 15:50  
DATE TESTING COMMENCED:  
24/01/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0165/1	S1 - UPSTREAM OF LANDFILL - 24/01/22
22/0165/2	S2 - WETLAND - 24/01/22
22/0165/3	S3 - SEDIMENT POND - 24/01/22
22/0165/4	S4 - 20/01/22
22/0165/5	S5 - 21/01/22
22/0165/6	S6 - 22/01/22
22/0165/7	S7 - 23/01/22

ANALYSIS	UNITS	22/0165/1	22/0165/2	22/0165/3	22/0165/4	METHOD NO
pH	pH unit	6.6	6.4	7.0	7.2	APHA 4500-H+ B
Total Suspended Solids	mg/L	302	11	5	19	APHA 2540 D
Alkalinity	mg CaCO <sub>3</sub> /L	41	27	70	-	APHA 2320 B
Ammonia Nitrogen	mg/L	0.04	0.04	0.12	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.02	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.61	0.76	0.94	-	EL16F
Total Nitrogen	mg/L	1.61	0.76	0.96	-	EL30F
Calcium	mg/L	13	6.4	25	-	EL9A
Potassium	mg/L	3.2	2.0	7.3	-	EL9A
Biochem Oxygen Demand (BOD5)	mg/L	9	<4	<4	-	APHA 5210 B



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[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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ANALYSIS	UNITS	22/0165/5	22/0165/6	22/0165/7		METHODNO
pH	pH unit	7.2	7.1	7.0		APHA 4500-H+ B
Total Suspended Solids	mg/L	7	13	10		APHA 2540 D
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-		APHA 2320 B
Ammonia Nitrogen	mg/L	-	-	-		EL13F
Nitrate Nitrogen	mg/L	-	-	-		EL15F
Total Kjeldahl Nitrogen	mg/L	-	-	-		EL16F
Total Nitrogen	mg/L	-	-	-		EL30F
Calcium	mg/L	-	-	-		EL9A
Potassium	mg/L	-	-	-		EL9A
Biochem Oxygen Demand (BOD5)	mg/L	-	-	-		APHA 5210 B

### Comments

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Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 2/02/22

Approved:



Michael Nolan  
Technical Officer



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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 22/0853  
No. of SAMPLES: 5  
DATE COLLECTED: 23-29/04/22  
DATE RECEIVED: 29/04/22  
TIME RECEIVED: 15:30  
DATE TESTING COMMENCED:  
29/04/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/0853/1	1 - UPSTREAM OF LANDFILL (29/04/2022)
22/0853/2	2 - WETLAND (29/04/2022)
22/0853/3	3 - SEDIMENT POND (29/04/2022)
22/0853/4	4 - S1 (23/04/2022)
22/0853/5	5 - S2 (24/04/2022)

ANALYSIS	UNITS	22/0853/1	22/0853/2	22/0853/3	22/0853/4	METHOD NO
pH	pH unit	6.9	6.5	7.9	7.3	APHA 4500-H+ B
Total Suspended Solids	mg/L	116	12	15	66	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	10	<4	4	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	75	39	126	-	APHA 2320 B
Ammonia Nitrogen	mg/L	0.54	0.04	0.04	-	EL13F
Nitrate Nitrogen	mg/L	0.03	<0.02	0.27	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.44	0.47	1.19	-	EL16F
Total Nitrogen	mg/L	1.49	0.47	1.46	-	EL30F
Calcium	mg/L	21	9.3	40	-	EL9A
Potassium	mg/L	3.6	1.8	7.8	-	EL9A



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ANALYSIS	UNITS	22/0853/5				METHODNO
pH	pH unit	7.3				APHA 4500-H+ B
Total Suspended Solids	mg/L	19				APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-				APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	-				APHA 2320 B
Ammonia Nitrogen	mg/L	-				EL13F
Nitrate Nitrogen	mg/L	-				EL15F
Total Kjeldahl Nitrogen	mg/L	-				EL16F
Total Nitrogen	mg/L	-				EL30F
Calcium	mg/L	-				EL9A
Potassium	mg/L	-				EL9A

### Comments

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Note: Microbiological results are membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 9/05/22

Approved:



Michael Nolan  
Technical Officer



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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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ENGINUITY DESIGN PTY LTD  
RICHARD GREEN  
PO BOX 107  
BELLINGEN NSW 2454

BATCHNUMBER: 22/1045  
No. of SAMPLES: 4  
DATE COLLECTED: 25/05/22  
DATE RECEIVED: 25/05/22  
TIME RECEIVED: 13:30  
DATE TESTING COMMENCED:  
25/05/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1045/1	Raleigh Tip Leachate
22/1045/2	Raleigh Tip GW1 (U/S NEW)
22/1045/3	Raleigh Tip GW7 (D/S)
22/1045/4	Raleigh Tip GW1 (U/S OLD)

ANALYSIS	UNITS	22/1045/1	22/1045/2	22/1045/3	22/1045/4	METHOD NO
pH	pH unit	6.7	6.1	6.2	5.6	APHA 4500-H+ B
Alkalinity	mg CaCO <sub>3</sub> /L	512	71	70	54	APHA 2320 B
Biochem Oxygen Demand (BOD <sub>5</sub> )	mg/L	5	<2	<2	5	APHA 5210 B
Nitrate Nitrogen	mg/L	<0.02	0.07	0.06	<0.02	EL15F
Ammonia Nitrogen	mg/L	17.9	<0.02	<0.02	0.03	EL13F
Total Nitrogen	mg/L	22.7	0.35	0.76	1.36	EL30F
Total Kjeldahl Nitrogen	mg/L	22.7	0.28	0.70	1.36	EL16F
Total Suspended Solids	mg/L	95	12	75	359	APHA 2540 D
Calcium	mg/L	127	3.4	11	18	EL9A
Potassium	mg/L	19	0.36	3.3	9.1	EL9A
Arsenic	mg/L	<0.012	<0.012	<0.012	<0.012	EL9A



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ANALYSIS	UNITS	22/1045/1	22/1045/2	22/1045/3	22/1045/4	METHODNO
<b>ORGANOCHLORINE PESTICIDES*</b>						
Hexachlorobenzene (HCB)	ug/L	<0.01	-	-	-	NR_19
Heptachlor	ug/L	<0.01	-	-	-	NR_19
Heptachlor Epoxide	ug/L	<0.01	-	-	-	NR_19
Aldrin	ug/L	<0.01	-	-	-	NR_19
gamma BHC (Lindane)	ug/L	<0.01	-	-	-	NR_19
alpha BHC	ug/L	<0.01	-	-	-	NR_19
beta BHC	ug/L	<0.01	-	-	-	NR_19
delta BHC	ug/L	<0.01	-	-	-	NR_19
trans Chlordane	ug/L	<0.01	-	-	-	NR_19
cis Chlordane	ug/L	<0.01	-	-	-	NR_19
Oxychlordane	ug/L	<0.01	-	-	-	NR_19
Dieldrin	ug/L	<0.01	-	-	-	NR_19
DDE pp	ug/L	<0.01	-	-	-	NR_19
DDD pp	ug/L	<0.01	-	-	-	NR_19
DDT pp	ug/L	<0.01	-	-	-	NR_19
Endrin	ug/L	<0.01	-	-	-	NR_19
Endrin Aldehyde	ug/L	<0.01	-	-	-	NR_19
Endrin Ketone	ug/L	<0.01	-	-	-	NR_19
alpha Endosulfan	ug/L	<0.01	-	-	-	NR_19
beta Endosulfan	ug/L	<0.01	-	-	-	NR_19
Endosulfan sulphate	ug/L	<0.01	-	-	-	NR_19
Methoxychlor	ug/L	<0.01	-	-	-	NR_19
<b>ORGANOPHOSPHATE PESTICIDES*</b>						
Dichlorvos	ug/L	<0.1	-	-	-	NR_19
Demeton-S-methyl	ug/L	<0.1	-	-	-	NR_19
Diazinon	ug/L	<0.1	-	-	-	NR_19
Dimethoate	ug/L	<0.1	-	-	-	NR_19
Chlorpyrifos	ug/L	<0.1	-	-	-	NR_19
Chlorpyrifos-methyl	ug/L	<0.1	-	-	-	NR_19
Malathion	ug/L	<0.1	-	-	-	NR_19
Ethion	ug/L	<0.1	-	-	-	NR_19
Fenthion	ug/L	<0.1	-	-	-	NR_19
Fenitrothion	ug/L	<0.1	-	-	-	NR_19
Chlorfenvinphos (E)	ug/L	<0.1	-	-	-	NR_19
Chlorfenvinphos (Z)	ug/L	<0.1	-	-	-	NR_19
Parathion (Ethyl)	ug/L	<0.1	-	-	-	NR_19
Parathion Methyl	ug/L	<0.1	-	-	-	NR_19
Pirimiphos Methyl	ug/L	<0.1	-	-	-	NR_19
Pirimiphos Ethyl	ug/L	<0.1	-	-	-	NR_19
Azinphos Methyl	ug/L	<0.1	-	-	-	NR_19
Azinphos ethyl	ug/L	<0.1	-	-	-	NR_19
<b>PHENOLS*</b>						
Phenol	ug/L	<1	-	-	-	NGCMS_1111



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	22/1045/1	22/1045/2	22/1045/3	22/1045/4	METHODNO
2-Chlorophenol	ug/L	<1	-	-	-	NGCMS_1111
2-Methylphenol	ug/L	<1	-	-	-	NGCMS_1111
3 & 4-Methylphenols	ug/L	<2	-	-	-	NGCMS_1111
2,4-Dimethylphenol	ug/L	<1	-	-	-	NGCMS_1111
2-Nitrophenol	ug/L	<1	-	-	-	NGCMS_1111
4-Nitrophenol	ug/L	<1	-	-	-	NGCMS_1111
2,4-Dichlorophenol	ug/L	<1	-	-	-	NGCMS_1111
2,6-Dichlorophenol	ug/L	<1	-	-	-	NGCMS_1111
4-Chloro-3-methylphenol	ug/L	<2	-	-	-	NGCMS_1111
2,4,6-Trichlorophenol	ug/L	<2	-	-	-	NGCMS_1111
2,4,5-Trichlorophenol	ug/L	<2	-	-	-	NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	<2	-	-	-	NGCMS_1111
Pentachlorophenol	ug/L	<2	-	-	-	NGCMS_1111

### 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.

\*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN 1354041.

Report Date: 8/06/22

Approved:



Michael Nolan  
Technical Officer



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.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRE COUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 23/1836  
No. of SAMPLES: 1  
DATE COLLECTED: 16/08/23  
DATE RECEIVED: 01/09/23  
TIME RECEIVED: 16:05  
DATE TESTING COMMENCED:  
01/09/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/1836/1	SEDIMENT PONDS RALEIGH

ANALYSIS	UNITS	23/1836/1				METHOD NO
pH	pH unit	7.4				APHA 4500-H+ B
Total Suspended Solids	mg/L	13				APHA 2540 D

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 11/09/23



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



# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 3



ENGINUITY DESIGN PTY LTD  
RICHARD GREEN  
PO BOX 107  
BELLINGEN NSW 2454

BATCHNUMBER: 23/2198  
No. of SAMPLES: 2  
DATE COLLECTED: 11/10/23  
DATE RECEIVED: 12/10/23  
TIME RECEIVED: 12:30  
DATE TESTING COMMENCED:  
12/10/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2198/1	Raleigh Tip GW1 (U/S NEW)
23/2198/2	Raleigh Tip GW7 (D/S)

ANALYSIS	UNITS	23/2198/1	23/2198/2		METHOD NO
pH	pH unit	6.1	5.0		APHA 4500-H+ B
Alkalinity	mg CaCO <sub>3</sub> /L	72	4		APHA 2320 B
Biochem Oxygen Demand (BOD5)	mg/L	<2	<2		APHA 5210 B
Nitrate Nitrogen	mg/L	0.03	0.12		EL15F
Ammonia Nitrogen	mg/L	<0.02	0.22		EL13F
Total Nitrogen	mg/L	0.08	0.66		EL30F
Total Kjeldahl Nitrogen	mg/L	0.05	0.54		EL16F
Total Suspended Solids	mg/L	18	422		APHA 2540 D
Calcium	mg/L	2.8	15		EL9A
Potassium	mg/L	0.53	10		EL9A
Arsenic	mg/L	<0.012	<0.012		EL9A

ANALYSIS	UNITS	23/2198/1	23/2198/2		METHOD NO
<b>ORGANOCHLORINE PESTICIDES*</b>					
Hexachlorobenzene (HCB)	ug/L	-	-		NR_19
Heptachlor	ug/L	-	-		NR_19
Heptachlor Epoxide	ug/L	-	-		NR_19
Aldrin	ug/L	-	-		NR_19
gamma BHC (Lindane)	ug/L	-	-		NR_19



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	23/2198/1	23/2198/2		METHODNO
alpha BHC	ug/L	-	-		NR_19
beta BHC	ug/L	-	-		NR_19
delta BHC	ug/L	-	-		NR_19
trans Chlordane	ug/L	-	-		NR_19
cis Chlordane	ug/L	-	-		NR_19
Oxychlordane	ug/L	-	-		NR_19
Dieldrin	ug/L	-	-		NR_19
DDE pp	ug/L	-	-		NR_19
DDD pp	ug/L	-	-		NR_19
DDT pp	ug/L	-	-		NR_19
Endrin	ug/L	-	-		NR_19
Endrin Aldehyde	ug/L	-	-		NR_19
Endrin Ketone	ug/L	-	-		NR_19
alpha Endosulfan	ug/L	-	-		NR_19
beta Endosulfan	ug/L	-	-		NR_19
Endosulfan sulphate	ug/L	-	-		NR_19
Methoxychlor	ug/L	-	-		NR_19
<b>ORGANOPHOSPHATE PESTICIDES*</b>					
Dichlorvos	ug/L	-	-		NR_19
Demeton-S-methyl	ug/L	-	-		NR_19
Diazinon	ug/L	-	-		NR_19
Dimethoate	ug/L	-	-		NR_19
Chlorpyrifos	ug/L	-	-		NR_19
Chlorpyrifos-methyl	ug/L	-	-		NR_19
Malathion	ug/L	-	-		NR_19
Ethion	ug/L	-	-		NR_19
Fenthion	ug/L	-	-		NR_19
Fenitrothion	ug/L	-	-		NR_19
Chlorfenvinphos (E)	ug/L	-	-		NR_19
Chlorfenvinphos (Z)	ug/L	-	-		NR_19
Parathion (Ethyl)	ug/L	-	-		NR_19
Parathion Methyl	ug/L	-	-		NR_19
Pirimiphos Methyl	ug/L	-	-		NR_19
Pirimiphos Ethyl	ug/L	-	-		NR_19
Azinphos Methyl	ug/L	-	-		NR_19
Azinphos ethyl	ug/L	-	-		NR_19
Bromophos ethyl	ug/L	-	-		NR_19
Carbophenothion	ug/L	-	-		NR_19
Coumaphos	ug/L	-	-		NR_19
Dioxathion	ug/L	-	-		NR_19
Fenamiphos	ug/L	-	-		NR_19
Fenchlorphos	ug/L	-	-		NR_19
Formothion	ug/L	-	-		NR_19
Methacrifos	ug/L	-	-		NR_19
Mevinphos	ug/L	-	-		NR_19



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

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ANALYSIS	UNITS	23/2198/1	23/2198/2			METHODNO
Methidathion	ug/L	-	-			NR_19
Phorate	ug/L	-	-			NR_19
Phosalone	ug/L	-	-			NR_19
Profenofos	ug/L	-	-			NR_19
Prothiophos	ug/L	-	-			NR_19
Triazophos	ug/L	-	-			NR_19
Thiometon	ug/L	-	-			NR_19
<b>PHENOLS*</b>						
Phenol	ug/L	-	-			NGCMS_1111
2-Chlorophenol	ug/L	-	-			NGCMS_1111
2-Methylphenol	ug/L	-	-			NGCMS_1111
3 & 4-Methylphenols	ug/L	-	-			NGCMS_1111
2,4-Dimethylphenol	ug/L	-	-			NGCMS_1111
2-Nitrophenol	ug/L	-	-			NGCMS_1111
4-Nitrophenol	ug/L	-	-			NGCMS_1111
2,4-Dichlorophenol	ug/L	-	-			NGCMS_1111
2,6-Dichlorophenol	ug/L	-	-			NGCMS_1111
4-Chloro-3-methylphenol	ug/L	-	-			NGCMS_1111
2,4,6-Trichlorophenol	ug/L	-	-			NGCMS_1111
2,4,5-Trichlorophenol	ug/L	-	-			NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	-	-			NGCMS_1111
Pentachlorophenol	ug/L	-	-			NGCMS_1111

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 18/10/23



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

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRE COUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 23/2338  
No. of SAMPLES: 3  
DATE COLLECTED: 30/10/23  
DATE RECEIVED: 30/10/23  
TIME RECEIVED: 16:05  
DATE TESTING COMMENCED:  
30/10/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2338/1	1 - UPSTREAM OF LANDFILL
23/2338/2	2 - WETLAND
23/2338/3	3 - SEDIMENT POND

ANALYSIS	UNITS	23/2338/1	23/2338/2	23/2338/3	METHOD NO
pH	pH unit	4.1	4.4	7.1	APHA 4500-H+ B
Total Suspended Solids	mg/L	4	13	19	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	3	5	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	<2	<2	46	APHA 2320 B
Ammonia Nitrogen	mg/L		0.02	0.44	EL13F
Nitrate Nitrogen	mg/L		0.02	0.42	EL15F
Total Kjeldahl Nitrogen	mg/L		0.61	1.28	EL16F
Total Nitrogen	mg/L		0.63	1.75	EL30F
Calcium	mg/L	34	31	67	EL9A
Potassium	mg/L	3.8	5.8	14	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 16/11/23



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.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 3



ENGINUITY DESIGN PTY LTD  
RICHARD GREEN  
PO BOX 107  
BELLINGEN NSW 2454

BATCHNUMBER: 23/2252  
No. of SAMPLES: 1  
DATE COLLECTED: 19/10/23  
DATE RECEIVED: 19/10/23  
TIME RECEIVED: 15:50  
DATE TESTING COMMENCED:  
19/10/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2252/1	LEACHATE FROM LEACHATE SUMP

ANALYSIS	UNITS	23/2252/1			METHOD NO
pH	pH unit	7.2			APHA 4500-H+ B
Alkalinity	mg CaCO <sub>3</sub> /L	693			APHA 2320 B
Biochem Oxygen Demand (BOD5)	mg/L	35			APHA 5210 B
Nitrate Nitrogen	mg/L	0.02			EL15F
Ammonia Nitrogen	mg/L	40.5			EL13F
Total Nitrogen	mg/L	46.3			EL30F
Total Kjeldahl Nitrogen	mg/L	46.3			EL16F
Total Suspended Solids	mg/L	180			APHA 2540 D
Calcium	mg/L	256			EL9A
Potassium	mg/L	50			EL9A
Arsenic	mg/L	0.013			EL9A

ANALYSIS	UNITS	23/2252/1			METHOD NO
<b>ORGANOCHLORINE PESTICIDES*</b>					
Hexachlorobenzene (HCB)	ug/L	<0.01			NR_19
Heptachlor	ug/L	<0.01			NR_19
Heptachlor Epoxide	ug/L	<0.01			NR_19
Aldrin	ug/L	<0.01			NR_19
gamma BHC (Lindane)	ug/L	<0.01			NR_19
alpha BHC	ug/L	<0.01			NR_19



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

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ANALYSIS	UNITS	23/2252/1			METHODNO
beta BHC	ug/L	<0.01			NR_19
delta BHC	ug/L	<0.01			NR_19
trans Chlordane	ug/L	<0.01			NR_19
cis Chlordane	ug/L	<0.01			NR_19
Oxychlordane	ug/L	<0.01			NR_19
Dieldrin	ug/L	<0.01			NR_19
DDE pp	ug/L	<0.01			NR_19
DDD pp	ug/L	<0.01			NR_19
DDT pp	ug/L	<0.01			NR_19
Endrin	ug/L	<0.01			NR_19
Endrin Aldehyde	ug/L	<0.01			NR_19
Endrin Ketone	ug/L	<0.01			NR_19
alpha Endosulfan	ug/L	<0.01			NR_19
beta Endosulfan	ug/L	<0.01			NR_19
Endosulfan sulphate	ug/L	<0.01			NR_19
Methoxychlor	ug/L	<0.01			NR_19
<b>ORGANOPHOSPHATE PESTICIDES*</b>					
Dichlorvos	ug/L	<0.1			NR_19
Demeton-S-methyl	ug/L	<0.1			NR_19
Diazinon	ug/L	<0.1			NR_19
Dimethoate	ug/L	<0.1			NR_19
Chlorpyrifos	ug/L	<0.1			NR_19
Chlorpyrifos-methyl	ug/L	<0.1			NR_19
Malathion	ug/L	<0.1			NR_19
Ethion	ug/L	<0.1			NR_19
Fenthion	ug/L	<0.1			NR_19
Fenitrothion	ug/L	<0.1			NR_19
Chlorfenvinphos (E)	ug/L	<0.1			NR_19
Chlorfenvinphos (Z)	ug/L	<0.1			NR_19
Parathion (Ethyl)	ug/L	<0.1			NR_19
Parathion Methyl	ug/L	<0.1			NR_19
Pirimiphos Methyl	ug/L	<0.1			NR_19
Pirimiphos Ethyl	ug/L	<0.1			NR_19
Azinphos Methyl	ug/L	<0.1			NR_19
Azinphos ethyl	ug/L	<0.1			NR_19
Bromophos ethyl	ug/L	<0.1			NR_19
Carbophenothion	ug/L	<0.1			NR_19
Coumaphos	ug/L	<0.1			NR_19
Dioxathion	ug/L	<0.1			NR_19
Fenamiphos	ug/L	<0.1			NR_19
Fenchlorphos	ug/L	<0.1			NR_19
Formothion	ug/L	<0.1			NR_19
Methacrifos	ug/L	<0.1			NR_19
Mevinphos	ug/L	<0.1			NR_19
Methidathion	ug/L	<0.1			NR_19



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	23/2252/1				METHODNO
Phorate	ug/L	<0.1				NR_19
Phosalone	ug/L	<0.1				NR_19
Profenofos	ug/L	<0.1				NR_19
Prothiophos	ug/L	<0.1				NR_19
Triazophos	ug/L	<0.1				NR_19
Thiometon	ug/L	<0.1				NR_19
<b>PHENOLS*</b>						
Phenol	ug/L	<1				NGCMS_1111
2-Chlorophenol	ug/L	<1				NGCMS_1111
2-Methylphenol	ug/L	<1				NGCMS_1111
3 & 4-Methylphenols	ug/L	<2				NGCMS_1111
2,4-Dimethylphenol	ug/L	<1				NGCMS_1111
2-Nitrophenol	ug/L	<1				NGCMS_1111
4-Nitrophenol	ug/L	<1				NGCMS_1111
2,4-Dichlorophenol	ug/L	<1				NGCMS_1111
2,6-Dichlorophenol	ug/L	<1				NGCMS_1111
4-Chloro-3-methylphenol	ug/L	<2				NGCMS_1111
2,4,6-Trichlorophenol	ug/L	<2				NGCMS_1111
2,4,5-Trichlorophenol	ug/L	<2				NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	<2				NGCMS_1111
Pentachlorophenol	ug/L	<2				NGCMS_1111

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

\*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN 1410209.

Report Date: 8/11/23



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

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRE COUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 23/2338  
No. of SAMPLES: 3  
DATE COLLECTED: 30/10/23  
DATE RECEIVED: 30/10/23  
TIME RECEIVED: 16:05  
DATE TESTING COMMENCED:  
30/10/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2338/1	1 - UPSTREAM OF LANDFILL
23/2338/2	2 - WETLAND
23/2338/3	3 - SEDIMENT POND

ANALYSIS	UNITS	23/2338/1	23/2338/2	23/2338/3	METHOD NO
pH	pH unit	4.1	4.4	7.1	APHA 4500-H+ B
Total Suspended Solids	mg/L	4	13	19	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	3	5	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	<2	<2	46	APHA 2320 B
Ammonia Nitrogen	mg/L	0.02	0.02	0.44	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.02	0.42	EL15F
Total Kjeldahl Nitrogen	mg/L	0.33	0.61	1.28	EL16F
Total Nitrogen	mg/L	0.33	0.63	1.75	EL30F
Calcium	mg/L	34	31	67	EL9A
Potassium	mg/L	3.8	5.8	14	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 20/11/23



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



# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0190  
No. of SAMPLES: 4  
DATE COLLECTED: 17-18/01/24  
DATE RECEIVED: 18/01/24  
TIME RECEIVED: 15:45  
DATE TESTING COMMENCED:  
18/01/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0190/1	1 - UPSTREAM OF LANDFILL
24/0190/2	2 - WETLAND
24/0190/3	3 - SEDIMENT POND
24/0190/4	S4

ANALYSIS	UNITS	24/0190/1	24/0190/2	24/0190/3	24/0190/4	METHOD NO
pH	pH unit	5.3	5.7	6.9	7.0	APHA 4500-H+ B
Total Suspended Solids	mg/L	<2	3	40	34	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	6	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	4	10	39	-	APHA 2320 B
Ammonia Nitrogen	mg/L	<0.02	<0.02	<0.02	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.05	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.76	0.93	1.29	-	EL16F
Total Nitrogen	mg/L	0.76	0.93	1.34	-	EL30F
Calcium	mg/L	7.1	9.7	23	-	EL9A
Potassium	mg/L	1.9	2.8	6.6	-	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 31/01/24



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

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0049  
No. of SAMPLES: 4  
DATE COLLECTED: 31/12/23-3/1/24  
DATE RECEIVED: 03/01/24  
TIME RECEIVED: 15:33  
DATE TESTING COMMENCED:  
03/01/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0049/1	1 - UPSTREAM OF LANDFILL
24/0049/2	2 - WETLAND
24/0049/3	3 - SEDIMENT POND
24/0049/4	S1

ANALYSIS	UNITS	24/0049/1	24/0049/2	24/0049/3	24/0049/4	METHOD NO
pH	pH unit	6.9	5.8	6.9	7.1	APHA 4500-H+ B
Total Suspended Solids	mg/L	36	13	34	235	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	7	4	7	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	62	12	63	-	APHA 2320 B
Ammonia Nitrogen	mg/L	<0.02	<0.02	<0.02	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.02	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.32	1.48	1.35	-	EL16F
Total Nitrogen	mg/L	1.32	1.48	1.37	-	EL30F
Calcium	mg/L	24	21	24	-	EL9A
Potassium	mg/L	8.7	5.1	8.8	-	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 11/01/24



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

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 23/2423  
No. of SAMPLES: 4  
DATE COLLECTED: 06-07/11/23  
DATE RECEIVED: 08/11/23  
TIME RECEIVED: 12:40  
DATE TESTING COMMENCED:  
08/11/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2423/1	1 - UPSTREAM OF LANDFILL
23/2423/2	2 - WETLAND
23/2423/3	3 - SEDIMENT POND
23/2423/4	S1

ANALYSIS	UNITS	23/2423/1	23/2423/2	23/2423/3	23/2423/4	METHOD NO
pH	pH unit	5.3	5.6	6.8	6.8	APHA 4500-H+ B
Total Suspended Solids	mg/L	128	<2	19	18	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	2	4	4	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	5	7	40	-	APHA 2320 B
Ammonia Nitrogen	mg/L	0.19	0.21	0.60	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.10	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.56	0.88	1.47	-	EL16F
Total Nitrogen	mg/L	0.56	0.88	1.62	-	EL30F
Calcium	mg/L	15	9.2	51	-	EL9A
Potassium	mg/L	3.0	2.1	13	-	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 16/11/23



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

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0294  
No. of SAMPLES: 4  
DATE COLLECTED: 29-31/01/24  
DATE RECEIVED: 31/01/24  
TIME RECEIVED: 16:15  
DATE TESTING COMMENCED:  
31/01/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0294/1	1 - UPSTREAM OF LANDFILL
24/0294/2	2 - WETLAND
24/0294/3	3 - SEDIMENT POND
24/0294/4	S1

ANALYSIS	UNITS	24/0294/1	24/0294/2	24/0294/3	24/0294/4	METHOD NO
pH	pH unit	6.1	6.5	7.3	6.9	APHA 4500-H+ B
Total Suspended Solids	mg/L	7	41	16	19	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	4	5	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	27	39	84	-	APHA 2320 B
Ammonia Nitrogen	mg/L	0.03	0.06	0.18	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	0.04	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.13	1.75	2.29	-	EL16F
Total Nitrogen	mg/L	1.13	1.75	2.37	-	EL30F
Calcium	mg/L	8.9	15	37	-	EL9A
Potassium	mg/L	2.3	4.0	10	-	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 7/02/24



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

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0495  
No. of SAMPLES: 4  
DATE COLLECTED: 12-21/02/24  
DATE RECEIVED: 23/02/24  
TIME RECEIVED: 15:45  
DATE TESTING COMMENCED:  
23/02/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0495/1	S1 - (12/02/24)
24/0495/2	S2 - (16/02/24)
24/0495/3	S3 - (17/02/24)
24/0495/4	S4 - (21/02/24)

ANALYSIS	UNITS	24/0495/1	24/0495/2	24/0495/3	24/0495/4	METHOD NO
pH	pH unit	6.9	7.1	7.0	6.9	APHA 4500-H+ B
Total Suspended Solids	mg/L	4	5	5	29	APHA 2540 D

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 27/02/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0509  
No. of SAMPLES: 3  
DATE COLLECTED: 26/02/24  
DATE RECEIVED: 26/02/24  
TIME RECEIVED: 15:50  
DATE TESTING COMMENCED:  
26/02/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0509/1	1 - UPSTREAM OF LANDFILL
24/0509/2	2 - WETLAND
24/0509/3	3 - SEDIMENT POND

ANALYSIS	UNITS	24/0509/1	24/0509/2	24/0509/3	METHOD NO
pH	pH unit	6.4	6.6	7.3	APHA 4500-H+ B
Total Suspended Solids	mg/L	9	7	19	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	2	4	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	25	28	79	APHA 2320 B
Ammonia Nitrogen	mg/L	0.04	0.04	<0.02	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.02	0.02	EL15F
Total Kjeldahl Nitrogen	mg/L	0.86	0.98	1.07	EL16F
Total Nitrogen	mg/L	0.86	1.00	1.09	EL30F
Calcium	mg/L	7.3	9.0	29	EL9A
Potassium	mg/L	1.8	3.1	10	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 4/03/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0613  
No. of SAMPLES: 4  
DATE COLLECTED: 03-06/03/24  
DATE RECEIVED: 07/03/24  
TIME RECEIVED: 15:55  
DATE TESTING COMMENCED:  
07/03/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0613/1	1 - UPSTREAM OF LANDFILL
24/0613/2	2 - WETLAND
24/0613/3	3 - SEDIMENT POND
24/0613/4	S1

ANALYSIS	UNITS	24/0613/1	24/0613/2	24/0613/3	24/0613/4	METHOD NO
pH	pH unit	6.6	6.8	7.0	7.0	APHA 4500-H+ B
Total Suspended Solids	mg/L	36	128	31	73	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	8	5	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	50	77	65	-	APHA 2320 B
Ammonia Nitrogen	mg/L	<0.02	0.02	<0.02	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	<0.02	<0.02	-	EL15F
Total Kjeldahl Nitrogen	mg/L	1.08	2.60	1.50	-	EL16F
Total Nitrogen	mg/L	1.08	2.60	1.50	-	EL30F
Calcium	mg/L	12	20	20	-	EL9A
Potassium	mg/L	2.5	4.5	9.1	-	EL9A

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Report Date: 18/03/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL  
RUTH ARMSTRONG  
31 HYDE STREET  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0976  
No. of SAMPLES: 8  
DATE COLLECTED: 22/04/24  
DATE RECEIVED: 22/04/24  
TIME RECEIVED: 13:10  
DATE TESTING COMMENCED:  
22/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0976/1	BSC-30-AK
24/0976/2	BSC-30-LB
24/0976/3	BSC-30-DC
24/0976/4	BSC-30-HH
24/0976/5	BSC-30-UL
24/0976/6	BSC-30-MB
24/0976/7	BSC-30-NB
24/0976/8	BSC-30-DDUPLICATE

ANALYSIS	UNITS	24/0976/1	24/0976/2	24/0976/3	24/0976/4	METHOD NO
Enterococcus	cfu/100mL	20	20	<10	<2	ELM 5

ANALYSIS	UNITS	24/0976/5	24/0976/6	24/0976/7	24/0976/8	METHOD NO
Enterococcus	cfu/100mL	10	5	<2	15	ELM 5



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Accreditation Number: 12359

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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, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 23/04/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

A handwritten signature in black ink that reads 'Shane Ewart'.

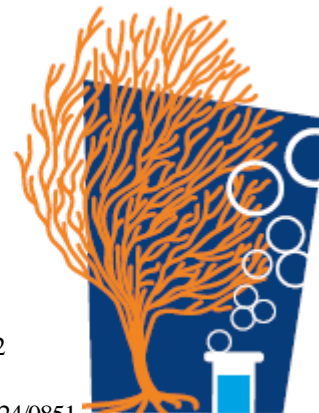
Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0851  
No. of SAMPLES: 6  
DATE COLLECTED: 05-08/04/24  
DATE RECEIVED: 08/04/24  
TIME RECEIVED: 15:00  
DATE TESTING COMMENCED:  
08/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0851/1	1 - UPSTREAM OF LANDFILL
24/0851/2	2 - WETLAND
24/0851/3	3 - SEDIMENT POND
24/0851/4	S1
24/0851/5	S2
24/0851/6	S3

ANALYSIS	UNITS	24/0851/1	24/0851/2	24/0851/3	24/0851/4	METHOD NO
pH	pH unit	6.5	6.5	7.0	7.0	APHA 4500-H+ B
Total Suspended Solids	mg/L	7	14	49	140	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<4	<4	<4	-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	23	23	77	-	APHA 2320 B
Ammonia Nitrogen	mg/L	<0.02	0.04	1.34	-	EL13F
Nitrate Nitrogen	mg/L	<0.02	0.07	0.10	-	EL15F
Total Kjeldahl Nitrogen	mg/L	0.86	1.04	2.43	-	EL16F
Total Nitrogen	mg/L	0.86	1.10	2.58	-	EL30F
Calcium	mg/L	6.8	7.2	28	-	EL9A
Potassium	mg/L	2.3	3.1	7.4	-	EL9A



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	24/0851/5	24/0851/6			METHODNO
pH	pH unit	6.9	7.0			APHA 4500-H+ B
Total Suspended Solids	mg/L	76	81			APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-	-			APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-			APHA 2320 B
Ammonia Nitrogen	mg/L	-	-			EL13F
Nitrate Nitrogen	mg/L	-	-			EL15F
Total Kjeldahl Nitrogen	mg/L	-	-			EL16F
Total Nitrogen	mg/L	-	-			EL30F
Calcium	mg/L	-	-			EL9A
Potassium	mg/L	-	-			EL9A

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

Report Date: 17/04/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL  
RUTH ARMSTRONG  
31 HYDE STREET  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0919  
No. of SAMPLES: 8  
DATE COLLECTED: 15/04/24  
DATE RECEIVED: 15/04/24  
TIME RECEIVED: 12:58  
DATE TESTING COMMENCED:  
15/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0919/1	BSC-29-AK
24/0919/2	BSC-29-LB
24/0919/3	BSC-29-DC
24/0919/4	BSC-29-HH
24/0919/5	BSC-29-UL
24/0919/6	BSC-29-MB
24/0919/7	BSC-29-NB
24/0919/8	BSC-29-DDUPLICATE

ANALYSIS	UNITS	24/0919/1	24/0919/2	24/0919/3	24/0919/4	METHOD NO
Enterococcus	cfu/100mL	90	15	<5	<2	ELM 5

ANALYSIS	UNITS	24/0919/5	24/0919/6	24/0919/7	24/0919/8	METHOD NO
Enterococcus	cfu/100mL	10	35	2	<5	ELM 5



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

**Comments**

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 16/04/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

A handwritten signature in black ink that reads "Shane Ewart".

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0851  
No. of SAMPLES: 6  
DATE COLLECTED: 05-08/04/24  
DATE RECEIVED: 08/04/24  
TIME RECEIVED: 15:00  
DATE TESTING COMMENCED:  
08/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0851/1	1 - UPSTREAM OF LANDFILL
24/0851/2	2 - WETLAND
24/0851/3	3 - SEDIMENT POND
24/0851/4	S1
24/0851/5	S2
24/0851/6	S3

ANALYSIS	UNITS	24/0851/1	24/0851/2	24/0851/3	24/0851/4	METHOD NO
pH	pH unit	6.5	6.5	7.0	7.0	APHA 4500-H+ B
Total Suspended Solids	mg/L	7	14	49	140	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L				-	APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	23	23	77	-	APHA 2320 B
Ammonia Nitrogen	mg/L				-	EL13F
Nitrate Nitrogen	mg/L				-	EL15F
Total Kjeldahl Nitrogen	mg/L				-	EL16F
Total Nitrogen	mg/L				-	EL30F
Calcium	mg/L				-	EL9A
Potassium	mg/L				-	EL9A



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	24/0851/5	24/0851/6			METHODNO
pH	pH unit	6.9	7.0			APHA 4500-H+ B
Total Suspended Solids	mg/L	76	81			APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-	-			APHA 5210 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-			APHA 2320 B
Ammonia Nitrogen	mg/L	-	-			EL13F
Nitrate Nitrogen	mg/L	-	-			EL15F
Total Kjeldahl Nitrogen	mg/L	-	-			EL16F
Total Nitrogen	mg/L	-	-			EL30F
Calcium	mg/L	-	-			EL9A
Potassium	mg/L	-	-			EL9A

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

INTERIMREPORT

Report Date: 10/04/24



Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



BELLINGENSHIRECOUNCIL  
RUTH ARMSTRONG  
31 HYDE STREET  
BELLINGEN NSW 2454

BATCHNUMBER: 24/0843  
No. of SAMPLES: 8  
DATE COLLECTED: 08/04/24  
DATE RECEIVED: 08/04/24  
TIME RECEIVED: 12:50  
DATE TESTING COMMENCED:  
08/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0843/1	BSC-27-AK
24/0843/2	BSC-27-LB
24/0843/3	BSC-27-DC
24/0843/4	BSC-27-HH
24/0843/5	BSC-27-UL
24/0843/6	BSC-27-MB
24/0843/7	BSC-27-NB
24/0843/8	BSC-27-DDUPLICATE

ANALYSIS	UNITS	24/0843/1	24/0843/2	24/0843/3	24/0843/4	METHOD NO
Enterococcus	cfu/100mL	50	120	140	4	ELM 5

ANALYSIS	UNITS	24/0843/5	24/0843/6	24/0843/7	24/0843/8	METHOD NO
Enterococcus	cfu/100mL	90	235	<2	240	ELM 5



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.



**Comments**

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, APHA. Raw data sheets stating analysis dates are available upon request.

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

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 9/04/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:   
Michael Nolan  
Technical Officer

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 1



BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1026  
No. of SAMPLES: 2  
DATE COLLECTED: 21-22/04/24  
DATE RECEIVED: 26/04/24  
TIME RECEIVED: 16:30  
DATE TESTING COMMENCED:  
26/04/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1026/1	S1
24/1026/2	S2

ANALYSIS	UNITS	24/1026/1	24/1026/2	METHOD NO
pH	pH unit	7.1	7.4	APHA 4500-H+ B
Total Suspended Solids	mg/L	20	3	APHA 2540 D

#### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

Report Date: 29/04/24



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Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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# COFFS HARBOUR LABORATORY

## Environmental Analysis

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BELLINGENSHIRECOUNCIL  
SAM TATE  
P.O. BOX 117  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1099  
No. of SAMPLES: 1  
DATE COLLECTED: 06/05/24  
DATE RECEIVED: 06/05/24  
TIME RECEIVED: 15:30  
DATE TESTING COMMENCED:  
06/05/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1099/1	S1

ANALYSIS	UNITS	24/1099/1			METHOD NO
pH	pH unit	7.7			APHA 4500-H+ B
Total Dissolved Solids	mg/L	821			EL7B
Total Suspended Solids	mg/L	14			APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	8			APHA 5210 B
Total Hardness	mg CaCO <sub>3</sub> /L	408			EL9A
Ammonia Nitrogen	mg/L	7.68			EL13F
Nitrate Nitrogen	mg/L	13.8			EL15F
Total Kjeldahl Nitrogen	mg/L	9.51			EL16F
Total Nitrogen	mg/L	24.0			EL30F
Total Phosphorus	mg/L	<0.03			EL18F
Sulphide#	mg/L	<0.10			EL19
Chlorine Total	mg/L	0.08			EL11B
Bromine*	ug/L	1,590			NT2_49
Tin*	ug/L	<1			NT2_47
Silver - Total*	mg/L	<0			NT2_47
Cyanide - Total as CN*	mg/L	0.035			NW_D12
Mercury - Total*	ug/L	<0.1			NT2_47
Sulphate	mg/L	20			EL10
Formaldehyde#	ug/L	<100			HACH8110
Oil & Grease	mg/L	<2			EL23A



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ANALYSIS	UNITS	24/1099/1			METHODNO
<b>Metal Suite</b>					
Aluminium	mg/L	0.21			EL9A
Copper	mg/L	0.003			EL9A
Iron	mg/L	0.74			EL9A
Manganese	mg/L	0.049			EL9A
Sodium	mg/L	96			EL9A
Potassium	mg/L	26			EL9A
Calcium	mg/L	128			EL9A
Magnesium	mg/L	22			EL9A
Sulphur	mg/L	6.8			EL9A
Silicon#	mg/L	11			EL9A
Barium#	mg/L	0.19			EL9A
Boron	mg/L	0.53			EL9A
Cadmium	mg/L	<0.002			EL9A
Chromium	mg/L	0.002			EL9A
Cobalt#	mg/L	<0.005			EL9A
Nickel	mg/L	0.005			EL9A
Molybdenum#	mg/L	<0.004			EL9A
Lead	mg/L	<0.008			EL9A
Zinc	mg/L	0.042			EL9A
Arsenic	mg/L	<0.012			EL9A
Antimony#	mg/L	<0.015			EL9A
Selenium#	mg/L	<0.015			EL9A
<b>ORGANOCHLORINE PESTICIDES*</b>					
Hexachlorobenzene (HCB)	ug/L	<0.01			NR_19
Heptachlor	ug/L	<0.01			NR_19
Heptachlor Epoxide	ug/L	<0.01			NR_19
Aldrin	ug/L	<0.01			NR_19
gamma BHC (Lindane)	ug/L	<0.01			NR_19
alpha BHC	ug/L	<0.01			NR_19
beta BHC	ug/L	<0.01			NR_19
delta BHC	ug/L	<0.01			NR_19
trans Chlordane	ug/L	<0.01			NR_19
cis Chlordane	ug/L	<0.01			NR_19
Oxychlordane	ug/L	<0.01			NR_19
Dieldrin	ug/L	<0.01			NR_19
DDE pp	ug/L	<0.01			NR_19
DDD pp	ug/L	<0.01			NR_19
DDT pp	ug/L	<0.01			NR_19
Endrin	ug/L	<0.01			NR_19
Endrin Aldehyde	ug/L	<0.01			NR_19
Endrin Ketone	ug/L	<0.01			NR_19
alpha Endosulfan	ug/L	<0.01			NR_19
beta Endosulfan	ug/L	<0.01			NR_19
Endosulfan sulphate	ug/L	<0.01			NR_19



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ANALYSIS	UNITS	24/1099/1			METHODNO
Methoxychlor	ug/L	<0.01			NR_19
<b>ORGANOPHOSPHATE PESTICIDES*</b>					
Dichlorvos	ug/L	<0.1			NR_19
Demeton-S-methyl	ug/L	<0.1			NR_19
Diazinon	ug/L	<0.1			NR_19
Dimethoate	ug/L	<0.1			NR_19
Chlorpyrifos	ug/L	<0.1			NR_19
Chlorpyrifos-methyl	ug/L	<0.1			NR_19
Malathion	ug/L	<0.1			NR_19
Fenthion	ug/L	<0.1			NR_19
Ethion	ug/L	<0.1			NR_19
Fenitrothion	ug/L	<0.1			NR_19
Chlorfenvinphos (E)	ug/L	<0.1			NR_19
Chlorfenvinphos (Z)	ug/L	<0.1			NR_19
Parathion (Ethyl)	ug/L	<0.1			NR_19
Parathion Methyl	ug/L	<0.1			NR_19
Pirimiphos Methyl	ug/L	<0.1			NR_19
Pirimiphos Ethyl	ug/L	<0.1			NR_19
Azinphos Methyl	ug/L	<0.1			NR_19
Azinphos ethyl	ug/L	<0.1			NR_19
Bromophos ethyl	ug/L	<0.1			NR_19
Carbophenothion	ug/L	<0.1			NR_19
Coumaphos	ug/L	<0.1			NR_19
Dioxathion	ug/L	<0.1			NR_19
Fenamiphos	ug/L	<0.1			NR_19
Fenchlorphos	ug/L	<0.1			NR_19
Formothion	ug/L	<0.1			NR_19
Methacrifos	ug/L	<0.1			NR_47
Methidathion	ug/L	<0.1			NR_19
Mevinphos	ug/L	<0.1			NR_19
Phorate	ug/L	<0.1			NR_47
Phosalone	ug/L	<0.1			NR_19
Prothiophos	ug/L	<0.1			NR_19
Thiometon	ug/L	<0.1			NR_47
Triazophos	ug/L	<0.1			NR_19
<b>BTEX*</b>					
Benzene	ug/L	<1			NGCMS_1121
Toluene	ug/L	<1			NGCMS_1121
Ethyl Benzene	ug/L	<1			NGCMS_1121
m,p-Xylene	ug/L	<2			NGCMS_1121
o-Xylene	ug/L	<1			NGCMS_1121
<b>PHENOLS*</b>					
Phenol	ug/L	<1			NGCMS_1111
2-Chlorophenol	ug/L	<1			NGCMS_1111
4-Chlorophenol	ug/L	<1			NGCMS_1111



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ANALYSIS	UNITS	24/1099/1			METHODNO
2-Methylphenol	ug/L	<1			NGCMS_1111
3 & 4-Methylphenols	ug/L	<2			NGCMS_1111
2,4-Dimethylphenol	ug/L	<1			NGCMS_1111
2-Nitrophenol	ug/L	<1			NGCMS_1111
4-Nitrophenol	ug/L	<1			NGCMS_1111
2,4-Dichlorophenol	ug/L	<1			NGCMS_1111
2,6-Dichlorophenol	ug/L	<1			NGCMS_1111
3,4-Dichlorophenol	ug/L	<1			NGCMS_1111
4-Chloro-3-methylphenol	ug/L	<1			NGCMS_1111
2,4,6-Trichlorophenol	ug/L	<1			NGCMS_1111
2,4,5-Trichlorophenol	ug/L	<2			NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	<2			NGCMS_1111
4-Chloro-2-methylphenol	ug/L	<2			NGCMS_1111
2-Ethylphenol	ug/L	<1			NGCMS_1111
Pentachlorophenol	ug/L	<2			NGCMS_1111
<b>TOTAL RECOVERABLE HYDROCARBONS</b>					
TRHC6-C9*	ug/L	<25			NGCMS_1121
TRHC10-C14*	ug/L	<25			NGCMS_1122
TRHC15-C28*	ug/L	<100			NGCMS_1122
TRHC29-C36*	ug/L	<100			NGCMS_1122
TRHC10-C36(sum)	ug/L	<100			NGCMS_1122
<b>TOTAL RECOVERABLE HYDROCARBON*</b>					
TRHC6- C10	ug/L	<25			NGCMS_1121
TRHC6- C10less BTEX(F1)	ug/L	<25			NGCMS_1121
TRH>C10-C16	ug/L	<25			NGCMS_1122
TRH>C10 - C16 less Naph (F2)	ug/L	<25			NGCMS_1122
TRH>C16-C34(F3)	ug/L	<100			NGCMS_1122
TRH>C34-C40(F4)	ug/L	<100			NGCMS_1122
<b>POLY AROMATIC HYDROCARBONS*</b>					
Naphthalene	ug/L	<0.5			NGCMS_1111
Acenaphthylene	ug/L	<0.5			NGCMS_1111
Acenaphthene	ug/L	<0.5			NGCMS_1111
Fluorene	ug/L	<0.5			NGCMS_1111
Phenanthrene	ug/L	<0.5			NGCMS_1111
Anthracene	ug/L	<0.5			NGCMS_1111
Fluoranthene	ug/L	<0.5			NGCMS_1111
Pyrene	ug/L	<0.5			NGCMS_1111
Benz(a)anthracene	ug/L	<0.5			NGCMS_1111
Chrysene	ug/L	<0.5			NGCMS_1111
Benzo(b)&(k)fluoranthene	ug/L	<1			NGCMS_1111
Benzo(a)pyrene	ug/L	<0.5			NGCMS_1111
Indeno(1,2,3-cd) pyrene	ug/L	<0.5			NGCMS_1111



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ANALYSIS	UNITS	24/1099/1				METHODNO
Dibenz(a,h)anthracene	ug/L	<0.5				NGCMS_1111
Benzo(g,h,i)perylene	ug/L	<0.5				NGCMS_1111

**Comments**

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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) RN1428681.

Report Date: 21/05/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 3



ENGINUITY DESIGN PTY LTD  
RICHARD GREEN  
PO BOX 107  
BELLINGEN NSW 2454

BATCHNUMBER: 24/1155  
No. of SAMPLES: 4  
DATE COLLECTED: 10/05/24  
DATE RECEIVED: 10/05/24  
TIME RECEIVED: 12:40  
DATE TESTING COMMENCED:  
10/05/24

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/1155/1	Raleigh Tip Leachate
24/1155/2	Raleigh Tip BH1 (U/S NEW)
24/1155/3	Raleigh Tip BH7 (D/S)
24/1155/4	Raleigh Tip BH1 (U/S OLD)

ANALYSIS	UNITS	24/1155/1	24/1155/2	24/1155/3	24/1155/4	METHOD NO
pH	pH unit	7.0	6.3	6.2	5.9	APHA 4500-H+ B
Alkalinity	mg CaCO <sub>3</sub> /L	576	74	44	57	APHA 2320 B
Biochem Oxygen Demand (BOD5)	mg/L	4	<2	<2	3	APHA 5210 B
Nitrate Nitrogen	mg/L	0.04	0.03	0.09	<0.02	EL15F
Ammonia Nitrogen	mg/L	23.3	<0.02	0.31	0.07	EL13F
Total Nitrogen	mg/L	25.8	0.06	1.12	0.96	EL30F
Total Kjeldahl Nitrogen	mg/L	25.7	<0.05	0.97	0.96	EL16F
Total Suspended Solids	mg/L	77	12	126	186	APHA 2540 D
Calcium	mg/L	159	2.9	16	3.3	EL9A
Potassium	mg/L	20	0.20	8.5	1.0	EL9A
Arsenic	mg/L	<0.012	<0.012	<0.012	<0.012	EL9A



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ANALYSIS	UNITS	24/1155/1	24/1155/2	24/1155/3	24/1155/4	METHODNO
<b>ORGANOCHLORINE PESTICIDES*</b>						
Hexachlorobenzene (HCB)	ug/L	<0.01	-	-	-	NR_19
Heptachlor	ug/L	<0.01	-	-	-	NR_19
Heptachlor Epoxide	ug/L	<0.01	-	-	-	NR_19
Aldrin	ug/L	<0.01	-	-	-	NR_19
gamma BHC (Lindane)	ug/L	<0.01	-	-	-	NR_19
alpha BHC	ug/L	<0.01	-	-	-	NR_19
beta BHC	ug/L	<0.01	-	-	-	NR_19
delta BHC	ug/L	<0.01	-	-	-	NR_19
trans Chlordane	ug/L	<0.01	-	-	-	NR_19
cis Chlordane	ug/L	<0.01	-	-	-	NR_19
Oxychlordane	ug/L	<0.01	-	-	-	NR_19
Dieldrin	ug/L	0.032	-	-	-	NR_19
DDE pp	ug/L	<0.01	-	-	-	NR_19
DDD pp	ug/L	<0.01	-	-	-	NR_19
DDT pp	ug/L	<0.01	-	-	-	NR_19
Endrin	ug/L	<0.01	-	-	-	NR_19
Endrin Aldehyde	ug/L	<0.01	-	-	-	NR_19
Endrin Ketone	ug/L	<0.01	-	-	-	NR_19
alpha Endosulfan	ug/L	<0.01	-	-	-	NR_19
beta Endosulfan	ug/L	<0.01	-	-	-	NR_19
Endosulfan sulphate	ug/L	<0.01	-	-	-	NR_19
Methoxychlor	ug/L	<0.01	-	-	-	NR_19
<b>ORGANOPHOSPHATE PESTICIDES*</b>						
Dichlorvos	ug/L	<0.1	-	-	-	NR_19
Demeton-S-methyl	ug/L	<0.1	-	-	-	NR_19
Diazinon	ug/L	<0.1	-	-	-	NR_19
Dimethoate	ug/L	<0.1	-	-	-	NR_19
Chlorpyrifos	ug/L	<0.1	-	-	-	NR_19
Chlorpyrifos-methyl	ug/L	<0.1	-	-	-	NR_19
Malathion	ug/L	<0.1	-	-	-	NR_19
Ethion	ug/L	<0.1	-	-	-	NR_19
Fenthion	ug/L	<0.1	-	-	-	NR_19
Fenitrothion	ug/L	<0.1	-	-	-	NR_19
Chlorfenvinphos (E)	ug/L	<0.1	-	-	-	NR_19
Chlorfenvinphos (Z)	ug/L	<0.1	-	-	-	NR_19
Parathion (Ethyl)	ug/L	<0.1	-	-	-	NR_19
Parathion Methyl	ug/L	<0.1	-	-	-	NR_19
Pirimiphos Methyl	ug/L	<0.1	-	-	-	NR_19
Pirimiphos Ethyl	ug/L	<0.1	-	-	-	NR_19
Azinphos Methyl	ug/L	<0.1	-	-	-	NR_19
Azinphos ethyl	ug/L	<0.1	-	-	-	NR_19
Bromophos ethyl	ug/L	<0.1	-	-	-	NR_19
Carbophenothion	ug/L	<0.1	-	-	-	NR_19



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Accreditation Number: 12359

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ANALYSIS	UNITS	24/1155/1	24/1155/2	24/1155/3	24/1155/4	METHODNO
Coumaphos	ug/L	<0.1	-	-	-	NR_19
Dioxathion	ug/L	<0.1	-	-	-	NR_19
Fenamiphos	ug/L	<0.1	-	-	-	NR_19
Fenchlorphos	ug/L	<0.1	-	-	-	NR_19
Formothion	ug/L	<0.1	-	-	-	NR_19
Methacrifos	ug/L	<0.1	-	-	-	NR_19
Mevinphos	ug/L	<0.1	-	-	-	NR_19
Methidathion	ug/L	<0.1	-	-	-	NR_19
Phorate	ug/L	<0.1	-	-	-	NR_19
Phosalone	ug/L	<0.1	-	-	-	NR_19
Profenofos	ug/L	<0.1	-	-	-	NR_19
Prothiophos	ug/L	<0.1	-	-	-	NR_19
Triazophos	ug/L	<0.1	-	-	-	NR_19
Thiometon	ug/L	<0.1	-	-	-	NR_19
<b>PHENOLS*</b>						
Phenol	ug/L	<1	-	-	-	NGCMS_1111
2-Chlorophenol	ug/L	<1	-	-	-	NGCMS_1111
4-Chlorophenol	ug/L	<1	-	-	-	NGCMS_1111
2-Methylphenol	ug/L	<1	-	-	-	NGCMS_1111
3 & 4-Methylphenols	ug/L	<2	-	-	-	NGCMS_1111
2,4-Dimethylphenol	ug/L	<1	-	-	-	NGCMS_1111
2-Nitrophenol	ug/L	<1	-	-	-	NGCMS_1111
4-Nitrophenol	ug/L	<1	-	-	-	NGCMS_1111
2,4-Dichlorophenol	ug/L	<1	-	-	-	NGCMS_1111
2,6-Dichlorophenol	ug/L	<1	-	-	-	NGCMS_1111
3,4-Dichlorophenol	ug/L	<1	-	-	-	NGCMS_1111
4-Chloro-3-methylphenol	ug/L	<2	-	-	-	NGCMS_1111
2,4,6-Trichlorophenol	ug/L	<2	-	-	-	NGCMS_1111
2,4,5-Trichlorophenol	ug/L	<2	-	-	-	NGCMS_1111
2,3,4,6-Tetrachlorophenol	ug/L	<2	-	-	-	NGCMS_1111
4-Chloro-2-methylphenol	ug/L	<2	-	-	-	NGCMS_1111
2-Ethylphenol	ug/L	<2	-	-	-	NGCMS_1111
Pentachlorophenol	ug/L	<2	-	-	-	NGCMS_1111

**Comments**

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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) RN1429327.

Report Date: 27/05/24



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.