

# COFFS HARBOUR LABORATORY

Environmental Analysis Page 1 of 3



GALINTEL  
KEVINELKS  
P. O. BOX 396  
COFFS HARBOUR NSW 2450

BATCHNUMBER: 18/2787  
No. of SAMPLES: 7  
DATE COLLECTED: 11/12/18  
DATE RECEIVED: 13/12/18  
TIME RECEIVED: 10:30  
DATE TESTING COMMENCED:  
13/12/18

## REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
18/2787/1	POINT 1
18/2787/2	POINT 3
18/2787/3	POINT 4
18/2787/4	POINT 5
18/2787/5	POINT 6
18/2787/6	POINT 7
18/2787/7	POINT 8

ANALYSIS	UNITS	18/2787/1	18/2787/2	18/2787/3	18/2787/4	METHOD NO
pH	pH unit	6.3	6.9	6.7	4.9	APHA 4500-H+ B
Conductivity	µS/cm	176	84	79	59	APHA 2510 B
Total Suspended Solids	mg/L	16	33	33	8	APHA 2540 D
Total Dissolved Solids	mg/L	113	54	50	38	EL7B
Total Hardness	mg CaCO <sub>3</sub> /L	19	17	14	3	EL9A
Alkalinity	mg CaCO <sub>3</sub> /L	4	11	8	<2	APHA 2320 B
Chloride	mg/L	39	12	11	8.6	EL10A
Sulfate	mg/L	2.3	2.9	4.0	2.3	EL9A
Calcium	mg/L	6.9	5.6	3.7	0.49	EL9A
Magnesium	mg/L	0.55	0.63	1.2	0.54	EL9A
Sodium	mg/L	4.5	4.6	6.1	4.5	EL9A
Potassium	mg/L	1.0	1.1	1.9	0.25	EL9A
Zinc	mg/L	19.7	3.1	0.20	0.62	EL9A
Zinc - Filtered	mg/L	18	2.2	0.15	0.62	EL9A
Copper	mg/L	0.079	0.058	0.023	0.014	EL9A
Copper - Filtered	mg/L	0.041	0.024	0.011	0.012	EL9A
Nickel	mg/L	0.016	0.038	<0.005	<0.005	EL9A
Nickel - Filtered	mg/L	0.015	0.032	<0.005	<0.005	EL9A



Accredited for compliance with ISO/IEC 17025.  
[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.

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ANALYSIS	UNITS	18/2787/1	18/2787/2	18/2787/3	18/2787/4	METHODNO
Manganese	mg/L	0.26	0.076	0.079	0.011	EL9A
Manganese - Filtered	mg/L	0.24	0.049	0.050	0.010	EL9A
Iron	mg/L	2.99	2.30	1.13	0.31	EL9A
Iron - Filtered	mg/L	<0.004	0.14	0.022	0.029	EL9A
Lead	mg/L	0.036	0.020	<0.010	<0.010	EL9A
Lead - Filtered	mg/L	<0.010	<0.010	<0.010	<0.010	EL9A
Cobalt#	mg/L	<0.008	<0.008	<0.008	<0.008	EL9A
Cobalt - Filtered#	mg/L	<0.008	<0.008	<0.008	<0.008	EL9A
Chromium Trivalent	mg/L	0.026	0.020	0.005	<0.003	EL9A
Chromium - Hexavalent*	mg/L	<0.001	<0.001	<0.001	<0.001	NW D2
Chromium	mg/L	0.026	0.020	0.005	<0.003	EL9A
Ammonia Nitrogen	mg/L	1.59	0.17	0.10	0.24	EL13F

ANALYSIS	UNITS	18/2787/5	18/2787/6	18/2787/7		METHODNO
pH	pH unit	4.7	4.2	7.2		APHA 4500-H+ B
Conductivity	µS/cm	54	86	94		APHA 2510 B
Total Suspended Solids	mg/L	15	5	64		APHA 2540 D
Total Dissolved Solids	mg/L	35	55	60		EL7B
Total Hardness	mg CaCO <sub>3</sub> /L	2	4	21		EL9A
Alkalinity	mg CaCO <sub>3</sub> /L	<2	<2	13		APHA 2320 B
Chloride	mg/L	7.3	13	9.8		EL10A
Sulfate	mg/L	2.1	1.1	4.1		EL9A
Calcium	mg/L	0.27	0.75	7.5		EL9A
Magnesium	mg/L	0.36	0.48	0.59		EL9A
Sodium	mg/L	2.8	3.9	4.1		EL9A
Potassium	mg/L	0.29	0.21	1.2		EL9A
Zinc	mg/L	2.7	2.6	4.8		EL9A
Zinc - Filtered	mg/L	2.5	2.5	1.0		EL9A
Copper	mg/L	0.029	0.052	0.16		EL9A
Copper - Filtered	mg/L	0.021	0.048	0.015		EL9A
Nickel	mg/L	<0.005	0.007	0.012		EL9A
Nickel - Filtered	mg/L	<0.005	0.006	<0.005		EL9A
Manganese	mg/L	0.015	0.31	0.084		EL9A
Manganese - Filtered	mg/L	0.009	0.29	0.016		EL9A
Iron	mg/L	0.92	2.06	6.31		EL9A
Iron - Filtered	mg/L	0.066	0.010	0.066		EL9A
Lead	mg/L	0.35	0.16	0.033		EL9A
Lead - Filtered	mg/L	0.29	0.16	<0.010		EL9A
Cobalt#	mg/L	<0.008	<0.008	<0.008		EL9A
Cobalt - Filtered#	mg/L	<0.008	<0.008	<0.008		EL9A
Chromium Trivalent	mg/L	0.004	<0.003	0.038		EL9A
Chromium - Hexavalent*	mg/L	<0.001	<0.001	0.001		NW D2
Chromium	mg/L	0.004	<0.003	0.039		EL9A
Ammonia Nitrogen	mg/L	0.30	0.15	0.09		EL13F



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ANALYSIS	UNITS	18/2787/1	18/2787/2	18/2787/3	18/2787/4	METHODNO
<b>TOTAL RECOVERABLE HYDROCARBONS</b>						
TRH C6-C9*	ug/L	<25	<25	<25	<25	NGCMS 1121
TRH C10-C14*	ug/L	<25	<25	<25	<25	NGCMS 1112
TRH C15-C28*	ug/L	<100	<100	<100	<100	NGCMS 1112
TRH C29-C36*	ug/L	<100	<100	<100	<100	NGCMS 1112
<b>TOTAL RECOVERABLE HYDROCARBON*</b>						
TRH C6- C10	ug/L	<25	<25	<25	<25	NGCMS 1121
TRH C6- C10 less BTEX (F1)	ug/L	<25	<25	<25	<25	NGCMS_1121
TRH>C10-C16	ug/L	<25	<25	<25	<25	NGCMS 1112
TRH>C10 - C16 less Naph (F2)	ug/L	<25	<25	<25	<25	NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	<100	<100	<100	NGCMS 1112
TRH>C34-C40(F4)	ug/L	<100	<100	<100	<100	NGCMS 1112

ANALYSIS	UNITS	18/2787/5	18/2787/6	18/2787/7		METHODNO
<b>TOTAL RECOVERABLE HYDROCARBONS</b>						
TRH C6-C9*	ug/L	<25	<25	<25		NGCMS 1121
TRH C10-C14*	ug/L	<25	<25	<25		NGCMS 1112
TRH C15-C28*	ug/L	<100	<100	<100		NGCMS 1112
TRH C29-C36*	ug/L	<100	<100	<100		NGCMS 1112
<b>TOTAL RECOVERABLE HYDROCARBON*</b>						
TRH C6- C10	ug/L	<25	<25	<25		NGCMS 1121
TRH C6- C10 less BTEX (F1)	ug/L	<25	<25	<25		NGCMS_1121
TRH>C10-C16	ug/L	<25	<25	<25		NGCMS 1112
TRH>C10 - C16 less Naph (F2)	ug/L	<25	<25	<25		NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	<100	<100		NGCMS 1112
TRH>C34-C40(F4)	ug/L	<100	<100	<100		NGCMS 1112

### 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.

\*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) RN 1218094.

Report Date: 7/01/19



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Approved:

*Stuart*  
Shane Ewart - Delegate for

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia

B J Wadleigh  
Laboratory Manager