

COFFS HARBOUR LABORATORY

Page 1 of 3
Environmental Analysis



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

BATCHNUMBER: 19/0844
No. of SAMPLES: 7
DATE COLLECTED: 02/04/19
DATE RECEIVED: 04/04/19
TIME RECEIVED: 08:35
DATE TESTING COMMENCED:
04/04/19

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
19/0844/1	POINT 1
19/0844/2	POINT 3
19/0844/3	POINT 4
19/0844/4	POINT 5
19/0844/5	POINT 6
19/0844/6	POINT 7
19/0844/7	POINT 8

ANALYSIS	UNITS	19/0844/1	19/0844/2	19/0844/3	19/0844/4	METHOD NO
pH	pH unit	6.2	7.4	7.2	5.6	APHA 4500-H+ B
Conductivity	µS/cm	95	112	53	32	APHA 2510 B
Total Suspended Solids	mg/L	9	44	12	57	APHA 2540 D
Total Dissolved Solids	mg/L	60	72	34	21	EL7B
Total Hardness	mg CaCO ₃ /L	14	38	12	3	EL9A
Alkalinity	mg CaCO ₃ /L	3	30	11	2	APHA 2320 B
Chloride	mg/L	26	11	7.4	6.8	EL10A
Sulfate	mg/L	1.4	5.1	2.7	1.5	EL9A
Calcium	mg/L	4.5	13	3.6	0.37	EL9A
Magnesium	mg/L	0.64	1.1	0.75	0.50	EL9A
Sodium	mg/L	5.0	5.5	4.0	3.1	EL9A
Potassium	mg/L	0.68	1.6	1.0	0.31	EL9A
Zinc	mg/L	6.1	2.5	0.077	0.67	EL9A
Zinc - Filtered	mg/L	5.5	1.2	0.060	0.48	EL9A
Copper	mg/L	0.061	0.080	0.013	0.13	EL9A
Copper - Filtered	mg/L	0.040	0.021	0.008	0.049	EL9A
Nickel	mg/L	0.016	0.007	<0.005	<0.005	EL9A
Nickel - Filtered	mg/L	0.012	<0.005	<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.

ANALYSIS	UNITS	19/0844/1	19/0844/2	19/0844/3	19/0844/4	METHODNO
Manganese	mg/L	0.45	0.073	0.026	0.020	EL9A
Manganese - Filtered	mg/L	0.41	0.022	0.010	0.004	EL9A
Iron	mg/L	3.48	3.97	0.59	1.37	EL9A
Iron - Filtered	mg/L	0.12	0.064	0.025	0.004	EL9A
Lead	mg/L	0.083	0.022	<0.010	0.037	EL9A
Lead - Filtered	mg/L	0.036	<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	0.007	0.018	<0.003	<0.003	EL9A
Chromium - Hexavalent*	mg/L	<0.001	<0.001	<0.001	<0.001	NW D2
Chromium	mg/L	0.007	0.018	<0.003	<0.003	EL9A
Ammonia Nitrogen	mg/L	0.15	0.04	0.03	0.05	EL13F

ANALYSIS	UNITS	19/0844/5	19/0844/6	19/0844/7		METHODNO
pH	pH unit	5.0	4.2	7.1		APHA 4500-H+ B
Conductivity	µS/cm	31	96	41		APHA 2510 B
Total Suspended Solids	mg/L	9	3	30		APHA 2540 D
Total Dissolved Solids	mg/L	20	62	26		EL7B
Total Hardness	mg CaCO ₃ /L	2	5	9		EL9A
Alkalinity	mg CaCO ₃ /L	<2	<2	9		APHA 2320 B
Chloride	mg/L	5.7	20	5.6		EL10A
Sulfate	mg/L	1.3	1.1	1.8		EL9A
Calcium	mg/L	0.14	1.0	3.3		EL9A
Magnesium	mg/L	0.30	0.54	0.30		EL9A
Sodium	mg/L	2.5	4.2	2.3		EL9A
Potassium	mg/L	0.096	0.23	0.89		EL9A
Zinc	mg/L	0.76	4.5	2.2		EL9A
Zinc - Filtered	mg/L	0.67	4.3	0.57		EL9A
Copper	mg/L	0.024	0.068	0.059		EL9A
Copper - Filtered	mg/L	0.017	0.061	0.008		EL9A
Nickel	mg/L	<0.005	0.017	<0.005		EL9A
Nickel - Filtered	mg/L	<0.005	0.014	<0.005		EL9A
Manganese	mg/L	0.008	0.43	0.040		EL9A
Manganese - Filtered	mg/L	0.003	0.39	0.006		EL9A
Iron	mg/L	0.60	2.14	3.25		EL9A
Iron - Filtered	mg/L	0.019	0.016	0.023		EL9A
Lead	mg/L	0.13	0.095	0.017		EL9A
Lead - Filtered	mg/L	0.094	0.093	<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	<0.003	<0.003	0.016		EL9A
Chromium - Hexavalent*	mg/L	<0.001	<0.001	<0.001		NW D2
Chromium	mg/L	<0.003	<0.003	0.016		EL9A
Ammonia Nitrogen	mg/L	0.04	0.14	0.03		EL13F



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ANALYSIS	UNITS	19/0844/1	19/0844/2	19/0844/3	19/0844/4	METHODNO
TOTAL RECOVERABLE HYDROCARBONS						
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
TOTAL RECOVERABLE HYDROCARBON*						
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	19/0844/5	19/0844/6	19/0844/7		METHODNO
TOTAL RECOVERABLE HYDROCARBONS						
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
TOTAL RECOVERABLE HYDROCARBON*						
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 1229193.

Report Date: 17/04/19



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Approved:


B J Wadleigh
Laboratory Manager