

COFFS HARBOUR LABORATORY

Environmental Analysis Page 1 of 5



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

BATCHNUMBER: 18/0329
No. of SAMPLES: 10
DATE COLLECTED: 07/02/18
DATE RECEIVED: 07/02/18
TIME RECEIVED: 13:00
DATE TESTING COMMENCED:
07/02/18

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
18/0329/1	POINT 1
18/0329/2	POINT 2A
18/0329/3	POINT 2B
18/0329/4	POINT 3
18/0329/5	POINT 4
18/0329/6	POINT 5
18/0329/7	POINT 6
18/0329/8	POINT 7
18/0329/9	POINT 8
18/0329/10	POINT 9

ANALYSIS	UNITS	18/0329/1	18/0329/2	18/0329/3	18/0329/4	METHOD NO
pH	pH unit	6.8	7.1	6.9	6.9	APHA 4500-H+ B
Conductivity	µS/cm	351	126	291	160	APHA 2510 B
Total Suspended Solids	mg/L	8	8	4	4	APHA 2540 D
Total Dissolved Solids	mg/L	224	81	186	103	EL7B
Total Hardness	mg CaCO ₃ /L	126	186	54	42	EL9A
Alkalinity	mg CaCO ₃ /L	24	17	30	19	APHA 2320 B
Chloride	mg/L	92	18	55	30	EL10A
Sulfate	mg/L	5.1	9.6	20.4	5.1	EL9A
Calcium	mg/L	48.0	72.0	14.0	15.0	EL9A
Magnesium	mg/L	1.5	1.6	4.5	1.2	EL9A
Sodium	mg/L	9.9	11.0	32.0	6.6	EL9A
Potassium	mg/L	3.8	1.2	2.2	2.3	EL9A
Zinc - Total*	ug/L	16,300	230	390	4,240	NT2 47
Zinc - Filtered*	ug/L	16,200	220	360	3,940	NT2 47



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

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ANALYSIS	UNITS	18/0329/1	18/0329/2	18/0329/3	18/0329/4	METHODNO
Copper - Total*	ug/L	24	3	5	33	NT2 47
Copper - Filtered*	ug/L	21	2.8	4.4	29	NT2 47
Nickel-Total*	ug/L	12	1.0	3.0	11	NT2 47
Nickel-Filtered*	ug/L	11	<1	2.9	10	NT2 47
Manganese - Total*	ug/L	660	17	22	170	NT2 47
Manganese - Filtered*	ug/L	560	12	19	160	NT2 47
Iron - Total*	mg/L	2,060	490	450	320	NT2 47
Iron - Filtered*	ug/L	1,290	270	230	180	NT2 47
Lead - Total*	ug/L	11	2	1	19	NT2 47
Lead - Filtered*	ug/L	9.0	<1	<1	12	NT2 47
Cobalt -Total*	ug/L	1.4	<1	<1	<1	NT2 47
Cobalt -Filtered*	ug/L	1.2	<1	<1	<1	NT2 47
Chromium - Trivalent*	ug/L	1.9	<1	1.9	23	NT2 47
Chromium - Hexavalent*	mg/L	<0.001	<0.001	<0.001	<0.001	NW D2
Chromium - Total*	ug/L	5	1	1	28	NT2 47
Ammonia Nitrogen	mg/L	0.69	0.07	<0.05	0.59	EL13F

ANALYSIS	UNITS	18/0329/5	18/0329/6	18/0329/7	18/0329/8	METHODNO
pH	pH unit	7.4	6.1	4.0	4.5	APHA 4500-H+ B
Conductivity	µS/cm	183	105	210	54	APHA 2510 B
Total Suspended Solids	mg/L	3	5	2	6	APHA 2540 D
Total Dissolved Solids	mg/L	117	67	134	34	EL7B
Total Hardness	mg CaCO ₃ /L	49	10	5	1	EL9A
Alkalinity	mg CaCO ₃ /L	45	3	<2	<2	APHA 2320 B
Chloride	mg/L	23	22	24	7.8	EL10A
Sulfate	mg/L	5.7	3.0	1.6	0.69	EL9A
Calcium	mg/L	15.0	1.8	0.95	0.24	EL9A
Magnesium	mg/L	2.9	1.3	0.70	0.20	EL9A
Sodium	mg/L	14.0	8.2	4.1	1.8	EL9A
Potassium	mg/L	1.2	0.54	0.31	0.092	EL9A
Zinc - Total*	ug/L	960	2,880	17,200	1,290	NT2 47
Zinc - Filtered*	ug/L	920	2,900	16,400	1,300	NT2 47
Copper - Total*	ug/L	13	11	210	23	NT2 47
Copper - Filtered*	ug/L	11	8.4	190	22	NT2 47
Nickel-Total*	ug/L	1.0	1.2	9.4	4.3	NT2 47
Nickel-Filtered*	ug/L	<1	<1	8.4	4.1	NT2 47
Manganese - Total*	ug/L	32	20	67	230	NT2 47
Manganese - Filtered*	ug/L	29	17	60	210	NT2 47
Iron - Total*	mg/L	420	130	1,300	3,050	NT2 47
Iron - Filtered*	ug/L	280	73	1,060	1,930	NT2 47
Lead - Total*	ug/L	58	2	1,510	120	NT2 47
Lead - Filtered*	ug/L	42	1.8	1,450	110	NT2 47
Cobalt -Total*	ug/L	<1	<1	<1	<1	NT2 47
Cobalt -Filtered*	ug/L	<1	<1	<1	<1	NT2 47
Chromium - Trivalent*	ug/L	<1	<1	9.0	<1	NT2 47



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ANALYSIS	UNITS	18/0329/5	18/0329/6	18/0329/7	18/0329/8	METHODNO
Chromium - Hexavalent*	mg/L	<0.001	0.001	0.003	0.003	NW D2
Chromium - Total*	ug/L	1	<1	14	<1	NT2 47
Ammonia Nitrogen	mg/L	0.22	0.51	3.32	0.15	EL13F

ANALYSIS	UNITS	18/0329/9	18/0329/10			METHODNO
pH	pH unit	7.0	6.7			APHA 4500-H+ B
Conductivity	µS/cm	167	5,590			APHA 2510 B
Total Suspended Solids	mg/L	6	19			APHA 2540 D
Total Dissolved Solids	mg/L	107	3,580			EL7B
Total Hardness	mg CaCO ₃ /L	50	597			EL9A
Alkalinity	mg CaCO ₃ /L	25	30			APHA 2320 B
Chloride	mg/L	28	1,740			EL10A
Sulfate	mg/L	3.0	291			EL9A
Calcium	mg/L	19.0	41.0			EL9A
Magnesium	mg/L	0.70	120			EL9A
Sodium	mg/L	5.6	1,320			EL9A
Potassium	mg/L	2.0	94.0			EL9A
Zinc - Total*	ug/L	2,590	19			NT2 47
Zinc - Filtered*	ug/L	2,430	30			NT2 47
Copper - Total*	ug/L	30	3			NT2 47
Copper - Filtered*	ug/L	22	1.5			NT2 47
Nickel-Total*	ug/L	14	6.8			NT2 47
Nickel-Filtered*	ug/L	13	6.6			NT2 47
Manganese - Total*	ug/L	160	91			NT2 47
Manganese - Filtered*	ug/L	150	80			NT2 47
Iron - Total*	mg/L	550	750			NT2 47
Iron - Filtered*	ug/L	230	210			NT2 47
Lead - Total*	ug/L	4	<1			NT2 47
Lead - Filtered*	ug/L	2.2	<1			NT2 47
Cobalt -Total*	ug/L	<1	<1			NT2 47
Cobalt -Filtered*	ug/L	<1	<1			NT2 47
Chromium - Trivalent*	ug/L	5.8	1.9			NT2 47
Chromium - Hexavalent*	mg/L	<0.001	<0.001			NW D2
Chromium - Total*	ug/L	7	6			NT2 47
Ammonia Nitrogen	mg/L	0.07	<0.05			EL13F

ANALYSIS	UNITS	18/0329/1	18/0329/2	18/0329/3	18/0329/4	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*						



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ANALYSIS	UNITS	18/0329/1	18/0329/2	18/0329/3	18/0329/4	METHODNO
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	18/0329/5	18/0329/6	18/0329/7	18/0329/8	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	18/0329/9	18/0329/10			METHODNO
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	ug/L	<25	<25			NGCMS 1121
TRH C10-C14*	ug/L	<25	<25			NGCMS 1112
TRH C15-C28*	ug/L	<100	<100			NGCMS 1112
TRH C29-C36*	ug/L	<100	<100			NGCMS 1112
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	ug/L	<25	<25			NGCMS 1121
TRH C6- C10 less BTEX (F1)	ug/L	<25	<25			NGCMS_1121
TRH>C10-C16	ug/L	<25	<25			NGCMS 1112
TRH>C10 - C16 less Naph (F2)	ug/L	<25	<25			NGCMS_1112
TRH>C16-C34(F3)	ug/L	<100	<100			NGCMS 1112
TRH>C34-C40(F4)	ug/L	<100	<100			NGCMS 1112



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