

COFFS HARBOUR LABORATORY

Environmental Page 1 of 4



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

BATCHNUMBER: 17/2386
No. of SAMPLES: 8
DATE COLLECTED: 08/11/17
DATE RECEIVED: 08/11/17
TIME RECEIVED: 12:33
DATE TESTING COMMENCED:
08/11/17

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
17/2386/1	POINT 1
17/2386/2	POINT 2A
17/2386/3	POINT 2B
17/2386/4	POINT 3
17/2386/5	POINT 4
17/2386/6	POINT 5
17/2386/7	POINT 6
17/2386/8	POINT 7

ANALYSIS	METHOD NO	UNITS	17/2386/1	17/2386/2	17/2386/3	17/2386/4
pH	APHA 4500-H+ B	pH unit	7.1	7.2	7.3	7.0
Conductivity	APHA 2510 B	µS/cm	375	219	330	195
Total Suspended Solids	APHA 2540 D	mg/L	18	10	6	9
Total Dissolved Solids	EL7B	mg/L	240	140	211	125
Total Hardness	EL9A	mg CaCO ₃ / L	129	43	77	46
Alkalinity	APHA 2320 B	mg CaCO ₃ / L	44	29	57	25
Chloride	EL10A	mg/L	82	40	58	39
Sulfate	EL9A	mg/L	10.1	15.3	20.8	8.7
Calcium	EL9A	mg/L	48.0	12.0	22.2	15.3
Magnesium	EL9A	mg/L	2.2	3.2	5.2	2.0
Sodium	EL9A	mg/L	13.6	25.7	37.6	14.5
Potassium	EL9A	mg/L	3.4	1.8	2.5	2.1
Zinc - Total*	NT2 47	ug/L	8,710	390	560	2,590
Zinc - Filtered*	NT2 47	ug/L	8,120	390	580	2,640
Copper - Total*	NT2 47	ug/L	12	18	13	27

ANALYSIS	METHODNO	UNITS	17/2386/1	17/2386/2	17/2386/3	17/2386/4
Copper - Filtered*	NT2 47	ug/L	9.1	14	10	19
Nickel-Total*	NT2 47	ug/L	6.8	1.2	1.3	5.7
Nickel-Filtered*	NT2 47	ug/L	5.7	1.1	1.2	5.2
Manganese - Total*	NT2 47	ug/L	150	25	29	50
Manganese - Filtered*	NT2 47	ug/L	130	21	28	46
Iron - Total*	NT2 47	mg/L	91	290	310	1,100
Iron - Filtered*	NT2 47	ug/L	52	140	96	650
Lead - Total*	NT2 47	ug/L	3	15	32	12
Lead - Filtered*	NT2 47	ug/L	1.6	5.8	8.2	7.1
Cobalt -Total*	NT2 47	ug/L	<1	<1	<1	<1
Cobalt -Filtered*	NT2 47	ug/L	<1	<1	<1	<1
Chromium - Trivalent*	NT2 47	ug/L	2.1	1.0	<1	11
Chromium - Hexavalent*	NW D2	mg/L	<0.001	<0.001	<0.001	0.003
Chromium - Total*	NT2 47	ug/L	2	<1	<1	14
Ammonia Nitrogen	EL13F	mg/L	0.14	<0.05	<0.05	0.24

ANALYSIS	METHODNO	UNITS	17/2386/5	17/2386/6	17/2386/7	17/2386/8
pH	APHA 4500-H+ B	pH unit	7.6	5.0	4.0	4.3
Conductivity	APHA 2510 B	µS/cm	359	169	244	81
Total Suspended Solids	APHA 2540 D	mg/L	5	14	10	9
Total Dissolved Solids	EL7B	mg/L	229	108	156	52
Total Hardness	EL9A	mg CaCO ₃ / L	82	16	11	3
Alkalinity	APHA 2320 B	mg CaCO ₃ / L	65	<2	<2	<2
Chloride	EL10A	mg/L	67	39	55	14
Sulfate	EL9A	mg/L	17.6	9.9	4.1	1.8
Calcium	EL9A	mg/L	22.7	1.6	1.2	0.35
Magnesium	EL9A	mg/L	6.0	2.9	2.0	0.51
Sodium	EL9A	mg/L	44.0	21.2	16.4	4.3
Potassium	EL9A	mg/L	1.8	0.74	0.67	0.19
Zinc - Total*	NT2 47	ug/L	560	1,460	8,380	1,770
Zinc - Filtered*	NT2 47	ug/L	560	1,650	8,560	1,980
Copper - Total*	NT2 47	ug/L	7	10	83	23
Copper - Filtered*	NT2 47	ug/L	5.7	9.3	75	22
Nickel-Total*	NT2 47	ug/L	<1	<1	14	6.3
Nickel-Filtered*	NT2 47	ug/L	<1	<1	13	6.2
Manganese - Total*	NT2 47	ug/L	38	15	52	390
Manganese - Filtered*	NT2 47	ug/L	36	14	48	400
Iron - Total*	NT2 47	mg/L	250	110	1,310	2,090
Iron - Filtered*	NT2 47	ug/L	110	88	1,210	1,570
Lead - Total*	NT2 47	ug/L	14	3	1,700	120
Lead - Filtered*	NT2 47	ug/L	5.2	2.7	1,570	120
Cobalt -Total*	NT2 47	ug/L	<1	<1	<1	<1
Cobalt -Filtered*	NT2 47	ug/L	<1	<1	<1	<1
Chromium - Trivalent*	NT2 47	ug/L	<1	<1	10	<1
Chromium - Hexavalent*	NW D2	mg/L	<0.001	<0.001	0.006	<0.001
Chromium - Total*	NT2 47	ug/L	<1	<1	16	<1
Ammonia Nitrogen	EL13F	mg/L	0.15	0.26	2.15	0.36

ANALYSIS	METHODNO	UNITS	17/2386/1	17/2386/2	17/2386/3	17/2386/4
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH C10-C14*	NGCMS 1112	ug/L	<25	<25	<25	<25
TRH C15-C28*	NGCMS 1112	ug/L	<100	<100	<100	<100
TRH C29-C36*	NGCMS 1112	ug/L	<100	<100	<100	<100
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH C6- C10 less BTEX (F1)	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH>C10-C16	NGCMS 1112	ug/L	<25	<25	<25	<25
TRH>C10 - C16 less Naph(F2)	NGCMS 1112	ug/L	<25	<25	<25	<25
TRH>C16-C34(F3)	NGCMS 1112	ug/L	<100	<100	<100	<100
TRH>C34-C40(F4)	NGCMS 1112	ug/L	<100	<100	<100	<100

ANALYSIS	METHODNO	UNITS	17/2386/5	17/2386/6	17/2386/7	17/2386/8
TOTAL RECOVERABLE HYDROCARBONS						
TRH C6-C9*	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH C10-C14*	NGCMS 1112	ug/L	<25	<25	<25	290
TRH C15-C28*	NGCMS 1112	ug/L	<100	<100	<100	<100
TRH C29-C36*	NGCMS 1112	ug/L	<100	<100	<100	<100
TOTAL RECOVERABLE HYDROCARBON*						
TRH C6- C10	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH C6- C10 less BTEX (F1)	NGCMS 1121	ug/L	<25	<25	<25	<25
TRH>C10-C16	NGCMS 1112	ug/L	<25	<25	<25	300
TRH>C10 - C16 less Naph(F2)	NGCMS 1112	ug/L	<25	<25	<25	300
TRH>C16-C34(F3)	NGCMS 1112	ug/L	<100	<100	<100	<100
TRH>C34-C40(F4)	NGCMS 1112	ug/L	<100	<100	<100	<100


Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water

& Wastewater", 22nd Edition, 2012, APHA. Raw data sheets stating analysis dates are available upon request.

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

*Analysis conducted by a subcontracted laboratory (NATA Accreditation Number 198) R/N: 1178203

Approved:  21/11/17
B J Wadleigh
Laboratory Manager



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.