



## Certificate Of Analysis

**Client:** Richmond Valley Council

**Address:** Locked Bag 10  
Casino NSW 2470

**Contact:** Aidan Macqueen

**Sampled by:** Jacob Arthur / Mal Window

\* **Subcontract Laboratory:** Envirolab (NATA 2901) / SGS (14429)

\* **Subcontract Reference:** 166947 / ME302770 RO

Sampled in accordance with RWL 2.0 to 2.05

Final report

RVC Casino & L River Quarterly

**Report no:** 17/0738

**Date received:** 9/05/2017

**Testing commenced:** 9/05/2017

**Date reported:** 22/05/2017

**No. of samples:** 10

**Revision no:** 00

Sample No.: Sample description:  Date sampled:	Unit	Method	LOR	17/0738/1 Casino Council Depot 10/05/2017	17/0738/2 Casino Bruton St 10/05/2017	17/0738/3 Casino Walker Street 10/05/2017	17/0738/4 Coraki Memorial Park 9/05/2017	17/0738/5 Box Ridge Community 9/05/2017	17/0738/6 Woodburn Riverside Park 9/05/2017	17/0738/7 Broadwater Community Centre 9/05/2017	17/0738/8 Rileys Hill Community Centre 9/05/2017
Colour (True)	Pt-Co	RWL10.02	2	<2	<2	<2	<2	<2	<2	<2	<2
Ammonia-N	mg/L	RWL 10.06	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrogen - Nitrate-N	mg/L	RWL 10.05	0.05	0.06	0.06	0.06	0.13	0.12	0.13	0.13	0.13
Nitrogen - Nitrite-N	mg/L	RWL 10.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aluminium (Total)	mg/L	APHA3120B	0.005	0.20	0.15	0.13	0.024	0.023	0.041	0.045	0.034
Copper (Total)	mg/L	APHA3120B	0.005	0.029	0.036	0.031	0.032	0.13	0.008	0.018	0.049
Iron (Total)	mg/L	APHA3120B	0.005	0.03	0.02	0.01	0.02	0.006	<0.005	<0.005	<0.005
Lead (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese (Total)	mg/L	APHA3120B	0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Total)	mg/L	APHA3120B	0.005	0.008	0.025	<0.005	0.011	0.014	<0.005	<0.005	0.007
Total Trihalomethanes*	µg/L	Envirolab	1	84	72	68	68	50	49	36	38
Electrical Conductivity	µS/cm	APHA2510B	1	408	410	407	157	153	161	162	164
Total Dissolved Solids by calc	mg/L	APHA1030E	2	261	262	260	100	98	103	103	105
Arsenic (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005



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Barium (Total)	mg/L	APHA3120B	0.01	0.022	0.021	0.021	<0.01	<0.01	<0.01	<0.01	<0.01
Boron (Total)	mg/L	APHA3120B	0.005	0.016	0.013	0.014	0.014	0.016	0.015	0.015	0.014
Calcium	mg/L	APHA3120B	0.1	22.9	22.8	21.9	19.2	18.9	21.6	21.1	21.4
Magnesium	mg/L	APHA3120B	0.1	11.8	12.7	12.9	0.9	0.8	0.5	0.6	0.6
Hardness as CaCO <sub>3</sub>	mg/L	APHA2340B	1	106	109	108	52	50	56	55	56
Chromium (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	mg/L	APHA3120B	0.15	50.5	50.6	50.2	12.9	13.0	12.6	12.9	12.8
Nickel (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloride	mg/L	RWL 10.09	2	31	31	31	13	13	13	13	13
Fluoride - ISE	mg/L	APHA4500FC	0.05	0.997	0.99	1.02	0.30	0.19	0.22	0.24	0.28
Sulphate#	mg/L	RWL 10.10	1	42.4	44.2	43.8	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (as CaCO <sub>3</sub> )	mg/L	APHA2320B	20	118	115	117	58	61	65	65	65
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1	<1	<1	<1	<1	<1	<1
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hydrogen Sulphide*	mg/L	SGS	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01



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Sample No.: Sample description: Date sampled:	Unit	Method	LOR	17/0738/9 Evans Head School 9/05/2017	17/0738/10 Evans Head High Zone 9/05/2017
Colour (True)	Pt-Co	RWL10.02	2	<2	<2
Ammonia-N	mg/L	RWL 10.06	0.01	<0.01	<0.01
Nitrogen - Nitrate-N	mg/L	RWL 10.05	0.05	0.12	0.15
Nitrogen - Nitrite-N	mg/L	RWL 10.05	0.01	<0.01	<0.01
Aluminium (Total)	mg/L	APHA3120B	0.005	0.046	0.045
Copper (Total)	mg/L	APHA3120B	0.005	0.014	<0.005
Iron (Total)	mg/L	APHA3120B	0.005	<0.005	0.007
Lead (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Manganese (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Zinc (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Total Trihalomethanes*	µg/L	Envirolab	1	59	51
Electrical Conductivity	µS/cm	APHA2510B	1	158	174
Total Dissolved Solids by calc	mg/L	APHA1030E	2	101	111
Arsenic (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Barium (Total)	mg/L	APHA3120B	0.01	<0.01	<0.01
Boron (Total)	mg/L	APHA3120B	0.005	0.014	0.014
Calcium	mg/L	APHA3120B	0.1	20.5	22.8
Magnesium	mg/L	APHA3120B	0.1	0.5	0.6
Hardness as CaCO <sub>3</sub>	mg/L	APHA2340B	1	53	59
Chromium (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005



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Sodium	mg/L	APHA3120B	0.15	12.4	12.9
Nickel (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Chloride	mg/L	RWL 10.09	2	13	14
Fluoride - ISE	mg/L	APHA4500FC	0.05	0.15	0.52
Sulphate#	mg/L	RWL 10.10	1	<1.0	<1.0
Alkalinity (as CaCO <sub>3</sub> )	mg/L	APHA2320B	20	64	60
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001
Hydrogen Sulphide*	mg/L	SGS	0.01	<0.01	<0.01

General comments: This report must not be reproduced except in full. This report relates only to items tested as specified herein. Samples analysed between date received and date reported. Accredited for compliance with ISO/IEC 17025. # NATA accreditation does not cover the performance of this service. Tests marked with \* are subcontracted. LOR denotes 'Limit of Reporting'

Specific comments:

  
M Window  
Laboratory Analyst  
Approved Authoriser