



Certificate Of Analysis

Client: Richmond Valley Council
Address: Locked Bag 10
Casino NSW 2470
Contact: Aidan Macqueen
Sampled by: Mia Donnelly

Final report

Report no: 19/0224
Date received: 12/02/2019
Testing commenced: 12/02/2019
Date reported: 25/02/2019
No. of samples: 10
Revision no: 00

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

* **Subcontract Reference:** 211603 / ME309612 RO

RVC Casino & L River Quarterly

Sampled in accordance with RWL 2.0 to 2.05

Sample No.: Sample description: Date sampled: Time sampled:	Unit	Method	LOR	19/0224/1 Casino Showground 12/02/2019	19/0224/2 Casino Walker Street 12/02/2019	19/0224/3 Casino South Res 12/02/2019	19/0224/4 Coraki Memorial Park 12/02/2019	19/0224/5 Box Ridge Community 12/02/2019	19/0224/6 Woodburn Riverside Park 12/02/2019	19/0224/7 Broadwater Community Centre 12/02/2019	19/0224/8 Rileys Hill Community Centre 12/02/2019
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	0.05	0.05	<0.05	0.05	0.05	<0.05	<0.05	0.05
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	0.084	0.068	0.067	0.025	0.024	0.038	0.050	0.033
Copper (Total)	mg/L	APHA3120B	0.005	0.039	0.031	0.006	0.023	0.11	<0.005	0.023	0.054
Iron (Total)	mg/L	APHA3120B	0.005	0.01	0.02	<0.005	0.007	0.01	<0.005	0.02	<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	0.016	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc (Total)	mg/L	APHA3120B	0.005	0.01	0.009	0.008	0.006	0.011	<0.005	<0.005	0.006
Total Trihalomethanes*	µg/L	Envirolab	1	129	98	123	46	49	40	37	33
Conductivity - field	µS/cm	APHA2510B	1	452	452	451	181	178	191	184	187
Total Dissolved Solids - field	mg/L	APHA1030E	2	289	289	289	116	114	122	118	120



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Arsenic (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium (Total)	mg/L	APHA3120B	0.01	0.020	0.016	0.016	<0.01	<0.01	<0.01	<0.01	<0.01
Boron (Total)	mg/L	APHA3120B	0.005	0.015	0.014	0.013	0.007	0.007	0.007	0.007	0.007
Calcium	mg/L	APHA3120B	0.1	28.7	27.7	27.3	21.7	22.0	23.8	24.3	24.5
Magnesium	mg/L	APHA3120B	0.1	15.5	16.7	16.5	1.4	1.4	1	1.1	1.1
Hardness as CaCO ₃	mg/L	APHA2340B	1	135	138	136	60	61	64	65	66
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	45.2	46.6	47.3	13.6	13.7	14.3	12.8	12.7
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	42	41	43	17	17	17	15	16
Fluoride - ISE	mg/L	APHA4500FC	0.05	1.09	1.10	1.10	0.071	0.068	0.063	<0.050	<0.050
Sulphate#	mg/L	RWL 10.10	1	49.1	52.5	47.0	<1.0	<1.0	<1.0	<1.0	<1.0
Alkalinity (as CaCO ₃)	mg/L	APHA2320B	20	113	119	115	65	66	67	70	69
Hydrogen Sulphide*	mg/L	SGS	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001



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Sample No.: Sample description: Date sampled: Time sampled:	Unit	Method	LOR	19/0224/9 Evans Head School 12/02/2019	19/0224/10 Evans Head High Zone 12/02/2019
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	<0.05	0.05
Nitrogen - Nitrite-N	mg/L	RWL 10.05	0.01	<0.01	<0.01
Aluminium (Total)	mg/L	APHA3120B	0.005	0.038	0.036
Copper (Total)	mg/L	APHA3120B	0.005	0.020	<0.005
Iron (Total)	mg/L	APHA3120B	0.005	0.006	0.005
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	47	50
Conductivity - field	µS/cm	APHA2510B	1	188	186
Total Dissolved Solids - field	mg/L	APHA1030E	2	120	119
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	0.007	0.007
Calcium	mg/L	APHA3120B	0.1	24.7	23.9
Magnesium	mg/L	APHA3120B	0.1	0.9	0.9
Hardness as CaCO ₃	mg/L	APHA2340B	1	65	63



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Chromium (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Sodium	mg/L	APHA3120B	0.15	12.9	13.8
Nickel (Total)	mg/L	APHA3120B	0.005	<0.005	<0.005
Chloride	mg/L	RWL 10.09	2	15	16
Fluoride - ISE	mg/L	APHA4500FC	0.05	0.050	0.065
Sulphate#	mg/L	RWL 10.10	1	<1.0	<1.0
Alkalinity (as CaCO3)	mg/L	APHA2320B	20	71	71
Hydrogen Sulphide*	mg/L	SGS	0.05	<0.05	<0.05
Carbon tetrachloride*	µg/L	Envirolab	1	<1	<1
Cadmium (Total)*	mg/L	Envirolab	0.0001	<0.0001	<0.0001
Antimony (Total)*	mg/L	Envirolab	0.001	<0.001	<0.001

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:

V. Barnett
Laboratory Analyst
Approved Authoriser