



Certificate Of Analysis

Client: Richmond Valley Council
Address: Locked Bag 10
Casino NSW 2470
Contact: Sandeep Chugh
Sampled by: Peter Mills

Final report

Report no: 21/1591
Date received: 4/11/2021
Testing commenced: 4/11/2021
Date reported: 12/11/2021
No. of samples: 9
Revision no: 00

* **Subcontract Laboratory:** Envirolab (NATA 2901) / SGS (2562)

* **Subcontract Reference:** 282116/ME323575

RVC Casino & L River Quarterly

Sampled in accordance with RWL 2.0 to 2.05

| Sample No.: Sample description: | Unit | Method | LOR | 21/1591/1 Woodburn Riverside Park 3/11/2021 08:01 | 21/1591/2 Casino Sextonville Rd 4/11/2021 12:51 | 21/1591/3 Casino Walker Street 4/11/2021 13:35 | 21/1591/4 Coraki Memorial Park 3/11/2021 13:40 | 21/1591/5 Box Ridge Community 3/11/2021 14:05 | 21/1591/6 Broadwater Community Centre 3/11/2021 09:35 | 21/1591/7 Rileys Hill Community Centre 3/11/2021 09:12 | 21/1591/8 Evans Head School 3/11/2021 10:25 |
|------------------------------------|-------|-----------|-------|--|--|---|---|---|--|---|---|
| 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 | 0.14 | 0.14 | 0.07 | 0.15 | 0.16 | 0.14 | 0.13 | 0.36 |
| 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 | 0.014 | 0.069 | 0.088 | 0.008 | 0.008 | 0.012 | 0.01 | 0.016 |
| Copper (Total) | mg/L | APHA3120B | 0.005 | 0.005 | 0.005 | 0.005 | 0.007 | 0.020 | 0.007 | 0.024 | <0.005 |
| Iron (Total) | mg/L | APHA3120B | 0.005 | 0.008 | 0.01 | 0.01 | <0.005 | <0.005 | <0.005 | <0.005 | 0.01 |
| 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 | 0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Zinc (Total) | mg/L | APHA3120B | 0.005 | <0.005 | <0.005 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Total Trihalomethanes* | µg/L | Envirolab | 1 | 41 | 90 | 76 | 45 | 44 | 30 | 31 | 48 |
| Conductivity - field | µS/cm | APHA2510B | 1 | 217 | 394 | 388 | 216 | 216 | 214 | 214 | 216 |
| Total Dissolved Solids - field | mg/L | APHA1030E | 2 | 139 | 252 | 248 | 138 | 138 | 137 | 137 | 138 |



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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 | <0.01 | 0.017 | 0.022 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Boron (Total) | mg/L | APHA3120B | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Calcium | mg/L | APHA3120B | 0.1 | 21.7 | 22.4 | 19.9 | 20.3 | 20.5 | 21.3 | 21.4 | 22.5 |
| Magnesium | mg/L | APHA3120B | 0.1 | 1.1 | 9.8 | 11.6 | 1.5 | 1.5 | 1.2 | 1.2 | 1 |
| Hardness as CaCO ₃ | mg/L | APHA2340B | 1 | 59 | 96 | 97 | 57 | 57 | 58 | 58 | 60 |
| 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 | 20.5 | 44.9 | 44.6 | 21.2 | 20.9 | 20.8 | 21.1 | 20.8 |
| 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 | 17 | 31 | 31 | 17 | 17 | 17 | 17 | 17 |
| Fluoride - ISE | mg/L | APHA4500FC | 0.05 | 0.97 | 1.08 | 1.04 | 1.01 | 0.98 | 1.01 | 1.01 | 1.00 |
| Sulphate | mg/L | RWL 10.10 | 1 | 1.7 | 45.5 | 40.3 | 1.9 | 2.1 | 2.1 | 1.9 | 2.1 |
| Alkalinity (as CaCO ₃) | mg/L | APHA2320B | 20 | 81 | 104 | 109 | 79 | 82 | 88 | 84 | 88 |
| 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 | 21/1591/9 Evans Head High Zone 3/11/2021 11:12 |
|--|-------------|---------------|------------|---|
| Colour (True) | Pt-Co | RWL10.02 | 2 | <2 |
| Ammonia-N | mg/L | RWL 10.06 | 0.01 | <0.01 |
| Nitrogen - Nitrate-N | mg/L | RWL 10.05 | 0.05 | 0.16 |
| Nitrogen - Nitrite-N | mg/L | RWL 10.05 | 0.01 | <0.01 |
| Aluminium (Total) | mg/L | APHA3120B | 0.005 | 0.015 |
| Copper (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Iron (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Lead (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Manganese (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Zinc (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Total Trihalomethanes* | µg/L | Envirolab | 1 | 50 |
| Conductivity - field | µS/cm | APHA2510B | 1 | 215 |
| Total Dissolved Solids - field | mg/L | APHA1030E | 2 | 138 |
| Arsenic (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Barium (Total) | mg/L | APHA3120B | 0.01 | <0.01 |
| Boron (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Calcium | mg/L | APHA3120B | 0.1 | 22.3 |
| Magnesium | mg/L | APHA3120B | 0.1 | 1 |
| Hardness as CaCO ₃ | mg/L | APHA2340B | 1 | 60 |



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|--|------|------------|--------|--|
| Chromium (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Sodium | mg/L | APHA3120B | 0.15 | 20.5 |
| Nickel (Total) | mg/L | APHA3120B | 0.005 | <0.005 |
| Chloride | mg/L | RWL 10.09 | 2 | 16 |
| Fluoride - ISE | mg/L | APHA4500FC | 0.05 | 1.02 |
| Sulphate | mg/L | RWL 10.10 | 1 | 1.9 |
| Alkalinity (as CaCO ₃) | mg/L | APHA2320B | 20 | 84 |
| Hydrogen Sulphide* | mg/L | SGS | 0.05 | <0.05 |
| Carbon tetrachloride* | µg/L | Envirolab | 1 | <1 |
| Cadmium (Total)* | mg/L | Envirolab | 0.0001 | <0.0001 |
| Antimony (Total)* | mg/L | Envirolab | 0.001 | <0.001 |

End of results

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 - Testing # NATA accreditation does not cover the performance of this service. Tests marked with * are subcontracted. LOR denotes 'Limit of Reporting' < denotes less than; > denotes greater than; ND denotes 'not detected' The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

Specific comments:


M Window
Laboratory Analyst
Approved Authoriser