

DATE OF ISSUE: 15/08/23

REPORT NO: WN231501

Water Analysis Report

REPORT NO:	WN231501	ISSUE DATE:	15/08/23
DATE SAMPLES RECEIVED:	8/08/23	PURCHASE ORDER:	
SAMPLES RECEIVED:	9	COMMENT:	Results relate only to items tested.

SUBMITTER:	David Cash
COMPANY:	Richmond Valley Council
ADDRESS:	Locked Bag 10 CASINO NSW 2470,

METHOD ID	ANALYSIS METHOD
W107	EC, pH, Alkalinity & Chloride in water by autotitrator
W112	Turbidity of water
W111	Determination of True and Apparent Colour in Water
W125	Anions in Water and Aqueous Extracts by Ion Chromatography
W141	Ammonia Nitrogen by FIA
W151	Nitrite Nitrogen by FIA
W153	Oxidised Nitrogen by FIA
M670	Elements and Metals by ICP-AES
C804	Hardness
M671	Elements and Metals by ICP-MS

REPORT AUTHORISATION

Approved for Release by: 

Steven Leahy
Chemist



Accreditation No. 14173
Accredited for compliance
with ISO/IEC 17025 - Testing



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ANALYSIS RESULTS			1	2	3	4	5	6
Test Description	LOR	UNITS	Woodburn Riverside Park	Broadwater Community Centre	Rileys Hill Community Centre	Evans Head School	Evans High Zone	Coraki Memorial Park
Date Sampled		Date	8/08/2023	8/08/2023	8/08/2023	8/08/2023	8/08/2023	8/08/2023
Sampled By			MW	MW	MW	MW	MW	MW
Time Sampled		Time	8:35:00 AM	9:05:00 AM	8:50:00 AM	9:25:00 AM	9:45:00 AM	10:45:00 AM
Field Total Chlorine**	0.05	mg/L	1.1	1.4	1.2	0.93	0.98	0.95
Field Free Chlorine**	0.05	mg/L	0.99	1.2	1.2	0.83	0.84	0.75
Field pH**	1	pH units	7.7	7.7	7.7	7.7	7.8	8.4
Field Temperature**	1	°C	16.3	17.3	16.7	18.0	17.8	19.4
Field Electrical Conductivity**	10	µS/cm	200	200	200	200	190	200
Field Turbidity**	0.07	NTU	0.23	0.24	0.26	0.25	0.20	0.27
Field Dissolved Oxygen** in %	1	%	98	100	100	99	100	93
Alkalinity	14	mg/L CaCO ₃	78	82	81	81	83	79
True Colour	1	CU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloride	0.5	mg/L	13	13	13	13	13	13
Sulfate	0.5	mg/L	0.96	0.99	0.98	0.97	0.99	0.99
Ammonium Nitrogen	0.02	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrite Nitrogen	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate Nitrogen	0.02	mg/L	0.031	<0.020	<0.020	<0.020	<0.020	<0.020
Dissolved Sodium	0.05	mg/L	14	14	14	14	13	14
Hardness	1.0	mg/L CaCO ₃	64	66	65	67	67	64
Calcium	0.03	mg/L	24	25	25	26	25	24
Magnesium	0.006	mg/L	0.73	0.81	0.80	0.72	0.73	0.96
Total Boron	0.05	mg/L	<0.05	0.060	<0.05	<0.05	<0.05	<0.05
Total Aluminium	0.001	mg/L	0.0079	0.0079	0.0072	0.0073	0.0077	0.0048
Total Arsenic	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Barium	0.5	µg/L	3.4	3.4	3.5	3.2	3.4	2.7
Total Cadmium	0.0001	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Total Chromium	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Copper	0.0005	mg/L	0.018	0.0081	0.022	0.020	0.0036	0.034
Total Iron	0.005	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.011
Total Manganese	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Nickel	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Lead	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00079
Total Antimony	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Selenium	0.0005	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Total Zinc	0.001	mg/L	0.0083	0.0024	0.0039	0.0052	0.0039	0.018

ANALYSIS RESULTS			7	8	9
Test Description	LOR	UNITS	Casino Sextonville Rd	Casino North Reservoir	Casino Walker Street
Date Sampled		Date	8/08/2023	8/08/2023	8/08/2023
Sampled By			MW	MW	MW
Time Sampled		Time	11:25:00 AM	11:55:00 AM	11:40:00 AM
Field Total Chlorine**	0.05	mg/L	1.2	1.4	1.3
Field Free Chlorine**	0.05	mg/L	1.0	1.2	1.1
Field pH**	1	pH units	8.1	8.1	8.1
Field Temperature**	1	°C	19.4	20.4	20.6
Field Electrical Conductivity**	10	µS/cm	400	380	400
Field Turbidity**	0.07	NTU	0.36	0.25	0.22

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ANALYSIS RESULTS					
			7	8	9
Test Description	LOR	UNITS	Casino Sextonville Rd	Casino North Reservoir	Casino Walker Street
Field Dissolved Oxygen** in %	1	%	101	98	100
Alkalinity	14	mg/L CaCO ₃	140	140	140
True Colour	1	CU	<1.0	<1.0	<1.0
Chloride	0.5	mg/L	38	38	37
Sulfate	0.5	mg/L	20	20	20
Ammonium Nitrogen	0.02	mg/L	<0.02	<0.02	<0.02
Nitrite Nitrogen	0.01	mg/L	<0.01	<0.01	<0.01
Nitrate Nitrogen	0.02	mg/L	<0.020	<0.020	0.021
Dissolved Sodium	0.05	mg/L	24	24	24
Hardness	1.0	mg/L CaCO ₃	140	140	140
Calcium	0.03	mg/L	31	29	29
Magnesium	0.006	mg/L	15	17	17
Total Boron	0.05	mg/L	<0.05	<0.05	<0.05
Total Aluminium	0.001	mg/L	0.023	0.034	0.0078
Total Arsenic	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Barium	0.5	µg/L	22	25	25
Total Cadmium	0.0001	mg/L	<0.00010	<0.00010	<0.00010
Total Chromium	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Copper	0.0005	mg/L	0.0012	0.0026	0.52
Total Iron	0.005	mg/L	<0.0050	<0.0050	<0.0050
Total Manganese	0.0005	mg/L	0.0017	0.00054	<0.00050
Total Nickel	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Lead	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Antimony	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Selenium	0.0005	mg/L	<0.00050	<0.00050	<0.00050
Total Zinc	0.001	mg/L	0.0012	<0.0010	0.011

LABORATORY NOTES

****NATA Accreditation does not cover the performances of this service.**

Samples outsourced to NSW Health Pathology for E.coli, TC and HPC analysis.

Samples outsourced to Envirolab for THM, Carbon Tetrachloride and Hydrogen Sulphide analysis.

The report from the outsourced lab will be forwarded when received by AgEnviro laboratory.

- Analysis is conducted within the date received and the date the report is finalised.
- Results are expressed on an 'as received' basis unless otherwise stated.
- This report should not be reproduced except in full.
- Samples will be retained for one calendar month from the date of the final report and then discarded.
- Clients wishing to recover their samples must contact the laboratory within this period.
- Sample return is at the clients expense.
- Results for elements analysed by ICP are reported in mg/L for ICP-OES and low level analysis in ug/L for ICP-MS