

RESULTS OF WATER ANALYSIS

10 samples supplied by Richmond Valley Council on 6/08/2024. Lab Job No. R7342.

Samples submitted by Allison Hawthorne. Your Job: RVC Mid-Richmond Consumer Quarterly.

Locked Bag 10 CASINO NSW 2470

SAMPLE CODES	PARAMETER	pH	Conductivity (EC) (dS/m)	Total Dissolved Salts (mg/L)	True Colour (Pt-Co)	Total Alkalinity (mg/L CaCO ₃ equivalent)	Dissolved Sulfide (mg/L S ₂ -)	Water Hardness (mg/L CaCO ₃ equivalent)	Nitrate (mg/L N)	Nitrite (mg/L N)	Phosphate (mg/L P)	Ammonia (mg/L N)	Sodium (mg/L)	Potassium (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium Absorption Ratio (SAR)	Chloride (mg/L)	Sulfate (mg/L SO ₄ ²⁻)	Chloride/Sulfate Ratio	
	METHODS REFERENCE/	APHA 4500-H ⁻ -B	APHA 2510-B	** Calculation using EC x 690	** APHA 2120	** Total Alkalinity - APHA 2350	** APHA 4500-S ₂ -F	** Using Ca and Mg calculation	APHA 4500 NO ₃ -F	APHA 4500 NO ₂ -I	APHA 4500 P-G	APHA 4500 NH ₃ -H	APHA 3125 ICPMS ¹⁰⁰⁴ 142	APHA 3125 ICPMS ¹⁰⁰⁴ 142	APHA 3125 ICPMS ¹⁰⁰⁴ 142	APHA 3125 ICPMS ¹⁰⁰⁴ 142	** By calculation	APHA 3125 ICPMS ¹⁰⁰⁴ 142	APHA 3125 ICPMS ¹⁰⁰⁴ 142	** Calculation	
	JOB NO.																				
Woodburn Park	R7342/1	6.80	0.20	137	1.00	71.0	<0.05	69.0	0.107	<0.005	<0.005	<0.005	15.2	1.70	26.3	0.815	0.797	12.6	7.83	1.61	
Rileys Comm.Centre	R7342/2	7.63	0.18	119	0.00	75.0	<0.05	68.0	0.105	<0.005	0.007	<0.005	14.8	1.66	25.8	0.887	0.781	10.5	7.38	1.42	
Broadwater Comm.Centre	R7342/3	7.56	0.18	119	0.00	74.0	<0.05	73.0	0.100	0.005	<0.005	<0.005	15.6	1.76	27.7	0.949	0.792	7.05	7.16	0.984	
Evans School	R7342/4	7.64	0.18	121	0.00	74.0	<0.05	71.9	0.100	<0.005	<0.005	<0.005	14.7	1.67	27.4	0.838	0.754	7.45	6.76	1.10	
Evans High Zone	R7342/5	7.55	0.18	122	1.00	74.0	<0.05	71.3	0.102	<0.005	<0.005	<0.005	14.4	1.66	27.2	0.803	0.741	9.52	7.60	1.25	
Coraki Park	R7342/6	7.40	0.18	120	2.00	73.0	<0.05	67.6	0.097	0.006	<0.005	<0.005	14.4	1.61	25.3	1.07	0.759	7.82	7.46	1.05	
Box Risge	R7342/7	7.44	0.18	120	2.00	72.0	<0.05	69.3	0.098	<0.005	<0.005	<0.005	14.8	1.66	26.0	1.06	0.774	8.18	8.30	0.985	
Casino Walker St	R7342/8	7.28	0.36	242	1.00	124	<0.05	141	0.026	<0.005	0.007	<0.005	32.9	1.63	28.8	16.9	1.20	26.4	22.4	1.18	
Casino Showground	R7342/9	7.54	0.36	243	1.00	120	<0.05	138	0.066	<0.005	0.006	<0.005	34.1	1.79	31.5	14.4	1.26	25.2	23.8	1.06	
Casino Nth Res	R7342/10	7.37	0.37	250	1.00	124	<0.05	141	0.026	<0.005	0.007	<0.005	33.5	1.60	28.2	17.0	1.23	26.6	22.5	1.19	

Notes:

- Total metals - samples digested with nitric acid; Total available (acid soluble/ extractable) metals - samples acidified with nitric acid to pH <2; Dissolved metals - samples filtered through 0.45µm cellulose acetate and then acidified with nitric acid prior to analysis
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L (micrograms per litre) = 1000 ppb (part per billion).
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
- Analysis conducted between sample arrival date and reporting date.
- ** NATA accreditation does not cover the performance of this service.
- .. Denotes not requested.
- This report is not to be reproduced except in full.
- In Pesticide Analysis Screening the following pesticides are included:
Organochlorine pesticide (OC's) screen (HCB, alpha-BHC, gamma-BHC, Heptachlor, delta-BHC, Aldrin, Heptachlor Epoxide, gamma-Chlordane, alpha-chlordane, Endosulfan 1, pp-DDE, Dieldrin, Endrin, pp-DDD, Endosulfan 2, pp-DDT, Endrin Aldehyde, Endosulfan Sulphate, Methoxychlor)
Organophosphorus pesticide (OP's) scs (Diazinon, Dimethoate, Chlorpyrifos-methyl, Ronnel, Chlorpyrifos, Fenitrothion, Bromophos-ethyl, Ethion)
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer SCU.edu.au/eal or on request).
- Results relate only to the samples tested.
- This report was issued on 21/08/2024.



RESULTS OF WATER ANALYSIS

10 samples supplied by Richmond Valley Council on 6/08/20;
 Samples submitted by Allison Hawthorne. Your Job: RVC Mir
 Locked Bag 10 CASINO NSW 2470

SAMPLE CODES	PARAMETER	Silver (mg/L)	Aluminium (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)	Manganese (mg/L)	Nickel (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Mercury (mg/L)	Barium (mg/L)	Boron (mg/L)	Antimony (mg/L)
	METHODS REFERENCE/	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}	APHA 3125 ICPMS ^{1000 1&2}
	JOB NO.																
Woodburn Park	R7342/1	<0.001	0.012	<0.001	<0.001	<0.001	0.019	0.001	<0.001	<0.001	<0.002	<0.001	0.009	<0.0005	0.004	0.012	<0.001
Rileys Comm.Centre	R7342/2	<0.001	0.008	<0.001	<0.001	<0.001	0.022	<0.001	<0.001	<0.001	<0.002	<0.001	0.006	<0.0005	0.004	0.012	<0.001
Broadwater Comm.Centre	R7342/3	<0.001	0.011	<0.001	<0.001	<0.001	0.005	0.001	<0.001	<0.001	<0.002	<0.001	0.003	<0.0005	0.004	0.011	<0.001
Evans School	R7342/4	<0.001	0.009	<0.001	<0.001	<0.001	0.013	0.001	<0.001	<0.001	<0.002	<0.001	0.005	<0.0005	0.004	0.012	<0.001
Evans High Zone	R7342/5	<0.001	0.007	<0.001	<0.001	<0.001	0.002	0.001	<0.001	<0.001	<0.002	<0.001	0.004	<0.0005	0.004	0.012	<0.001
Coraki Park	R7342/6	<0.001	0.005	<0.001	<0.001	<0.001	0.012	0.006	<0.001	<0.001	<0.002	<0.001	0.007	<0.0005	0.003	0.012	<0.001
Box Risge	R7342/7	<0.001	0.004	<0.001	<0.001	<0.001	0.028	0.001	<0.001	<0.001	<0.002	<0.001	0.008	<0.0005	0.003	0.012	<0.001
Casino Walker St	R7342/8	<0.001	0.025	<0.001	<0.001	<0.001	0.155	<0.001	0.001	0.001	<0.002	<0.001	0.012	<0.0005	0.025	0.011	<0.001
Casino Showground	R7342/9	<0.001	0.020	<0.001	<0.001	<0.001	0.009	0.003	0.001	<0.001	<0.002	<0.001	0.004	<0.0005	0.024	0.012	<0.001
Casino Nth Res	R7342/10	<0.001	0.043	<0.001	<0.001	<0.001	0.005	<0.001	0.001	0.001	<0.002	<0.001	0.002	<0.0005	0.024	0.011	<0.001

Notes:

- Total metals - samples digested with nitric acid; Total avail: Dissolved metals - samples filtered through 0.45µm cellulose
- Metals and salts analysed by Inductively Coupled Plasma -
- 1 mg/L (milligram per litre) = 1 ppm (part per million) = 100
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- Analysis performed according to APHA (2017) Standard M
- Analysis conducted between sample arrival date and report
- ** NATA accreditation does not cover the performance of it
- .. Denotes not requested.
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- In Pesticide Analysis Screening the following pesticides a Organochlorine pesticide (OC's) screen (HCB, alpha-BHC Endosulfan 1, pp Organophosphorus pesticide (OP's) s.c.i (Diazinon, Dimeth
- All services undertaken by EAL are covered by the EAL L
- Results relate only to the samples tested.
- This report was issued on 21/08/2024.

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 Locked Bag 10 CASINO NSW 2470

SAMPLE CODES	PARAMETER	Dichlorodifluoromethane (CFC-12) (µg/L)	Chloromethane (µg/L)	Vinyl chloride (Chloroethene) (µg/L)	Chloroethane (µg/L)	Trichlorofluoromethane (µg/L)	1,1-dichloroethene (µg/L)	Dichloromethane (Methylene chloride) (µg/L)	Allyl chloride (µg/L)	trans-1,2-dichloroethene (µg/L)	1,1-dichloroethane (µg/L)	cis-1,2-dichloroethene (µg/L)	Bromochloromethane (µg/L)	Chloroform (THM) (µg/L)	2,2-dichloropropane (µg/L)	1,2-dichloroethane (µg/L)	1,1,1-trichloroethane (µg/L)	1,1-dichloropropane (µg/L)	Carbon tetrachloride (µg/L)	Dibromomethane (µg/L)	1,2-dichloropropane (µg/L)
	METHODS REFERENCE/	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282	Subcontracted: SGS report SE 269282
	JOB NO.																				
Woodburn Park	R7342/1	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	17.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Rileys Comm.Centre	R7342/2	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	14.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Broadwater Comm.Centre	R7342/3	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	12.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Evans School	R7342/4	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	18.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Evans High Zone	R7342/5	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	21.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coraki Park	R7342/6	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	19.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Box Risge	R7342/7	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	24.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Casino Walker St	R7342/8	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	31.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Casino Showground	R7342/9	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	59.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Casino Nth Res	R7342/10	<5	<5	<0.3	<5	<1	<0.5	<5	<2	<0.5	<0.5	<0.5	<0.5	29.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

- Notes:
- Total metals - samples digested with nitric acid; Total available dissolved metals - samples filtered through 0.45µm cellulose
 - Metals and salts analysed by Inductively Coupled Plasma
 - 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 µg/L
 - For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
 - Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water and Wastewater'
 - Analysis conducted between sample arrival date and report date
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 - In Pesticide Analysis Screening the following pesticides are included: Organochlorine pesticide (OC's) screen (HCB, alpha-BHC, Dieldrin, Endosulfan 1, pp-DDD, Organophosphorus pesticide (OP's) screen (Diazinon, Dimethoate)
 - All services undertaken by EAL are covered by the EAL Laboratory Accreditation
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 - This report was issued on 21/08/2024.

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SAMPLE CODES	PARAMETER	Trichloroethene (TCE) (µg/L)	Bromodichloromethane (THM) (µg/L)	cis-1,3-dichloropropene (µg/L)	trans-1,3-dichloropropene (µg/L)	1,1,2-trichloroethane (µg/L)	1,3-dichloropropane (µg/L)	Dibromochloromethane (THM) (µg/L)	1,2-dibromoethane (EDB) (µg/L)	Tetrachloroethene (Perchloroethylene, PCE) (µg/L)	1,1,1,2-tetrachloroethane (µg/L)	Chlorobenzene (µg/L)	Bromoform (THM) (µg/L)	1,1,2,2-tetrachloroethane (µg/L)	1,2,3-trichloropropane (µg/L)	trans-1,4-dichloro-2-butene (µg/L)	Bromobenzene (µg/L)	2-chlorotoluene (µg/L)	4-chlorotoluene (µg/L)	1,3-dichlorobenzene (µg/L)	1,4-dichlorobenzene (µg/L)	1,2-dichlorobenzene (µg/L)
	METHODS REFERENCE)	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282	Subcontracted SGS report SE 269282
	JOB NO.																					
Woodburn Park	R7342/1	<0.5	6.20	<0.5	<0.5	<0.5	<0.5	3.80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Rileys Comm.Centre	R7342/2	<0.5	5.10	<0.5	<0.5	<0.5	<0.5	3.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Broadwater Comm.Centre	R7342/3	<0.5	5.10	<0.5	<0.5	<0.5	<0.5	3.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Evans School	R7342/4	<0.5	7.70	<0.5	<0.5	<0.5	<0.5	5.10	<0.5	<0.5	<0.5	<0.5	0.500	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Evans High Zone	R7342/5	<0.5	8.20	<0.5	<0.5	<0.5	<0.5	5.20	<0.5	<0.5	<0.5	<0.5	0.500	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Coraki Park	R7342/6	<0.5	7.50	<0.5	<0.5	<0.5	<0.5	4.70	<0.5	<0.5	<0.5	<0.5	0.500	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Box Risge	R7342/7	<0.5	9.40	<0.5	<0.5	<0.5	<0.5	5.30	<0.5	<0.5	<0.5	<0.5	0.600	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Casino Walker St	R7342/8	<0.5	21.0	<0.5	<0.5	<0.5	<0.5	12.0	<0.5	<0.5	<0.5	<0.5	1.00	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Casino Showground	R7342/9	<0.5	31.0	<0.5	<0.5	<0.5	<0.5	14.0	<0.5	<0.5	<0.5	<0.5	0.900	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5
Casino Nth Res	R7342/10	<0.5	19.0	<0.5	<0.5	<0.5	<0.5	13.0	<0.5	<0.5	<0.5	<0.5	1.00	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.3	<0.5

- Notes:
- Total metals - samples digested with nitric acid; Total avail Dissolved metals - samples filtered through 0.45µm cellulose
 - Metals and salts analysed by Inductively Coupled Plasma
 - 1 mg/L (milligram per litre) = 1 ppm (part per million) = 100
 - For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
 - Analysis performed according to APHA (2017) Standard 1
 - Analysis conducted between sample arrival date and report
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 - In Pesticide Analysis Screening the following pesticides are Organochlorine pesticide (OC's) screen (HCB, alpha-BHC Endosulfan 1, pp Organophosphorus pesticide (OP's) scr (Diazinon, Dimeth
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