Tweed Laboratory Centre

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FINAL CERTIFICATE OF ANALYSIS

 Report: CHEM/ORGS **Lims1 Report No:** **254203 / 00**

Client: Richmond Valley Council
Job Description: Reticulation - Quarterly
Client Reference: PU093817
Date of Report: 11/11/2025

Attention: Lab Results
Copy To:
Address: Locked Bag 10
CASINO
NSW 2470

Sampled by: M.Window **Sampled:** 4/11/2025 **No of Samples:** 10
Received: 4/11/2025 **Testing Commenced:** 4/11/2025 **Testing Completed:** 11/11/2025

LIMS No.	Sample/Site Identification	Sample/Site Description	Sample Matrix
254203-1	Coraki Park	1	Water
254203-2	Box Ridge	2	Water
254203-3	Woodburn Park	3	Water
254203-4	Riley's Hill Community Centre	4	Water
254203-5	Broadwater Community Centre	5	Water
254203-6	Evans School	6	Water
254203-7	Evans Head High Zone	7	Water
254203-8	Casino Walker St	8	Water
254203-9	Casino North Res	9	Water
254203-10	Casino Showground	10	Water

Darryl Capner
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REPORT COMMENTS

Additional information relevant to this report can be found in the Sample Receipt Notice and Chain of Custody.
Measurement Uncertainty available upon request.

Key:
- LOR = Limit of reporting
- ^ = NATA accreditation does not cover the performance of this service
- * = Value is considered an estimate
- NP = Not present
- ND = Not detected
- < = Less than
- > = Greater than
- SS = Sample Surrogate (Quality Control Compound)

ANALYSIS RESULTS

Sample Identification:				Coraki Park	Box Ridge	Woodburn Park	Riley's Hill Community Centre
Date Taken:				4/11/2025 12:00 AM	4/11/2025 12:00 AM	4/11/2025 12:00 AM	4/11/2025 12:00 AM
Test	Method	Units	LOR	254203-1	254203-2	254203-3	254203-4
Reticulation - Quarterly							
Iron (Soluble)	M8	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Soluble)	M8	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Aluminium (Soluble)	M8	mg/L	0.01	0.02	0.02	0.02	0.02
Colour True	P10	Colour Units	1	<1	<1	<1	<1
Copper (Total)	M16	mg/L	0.001	0.017	0.028	0.017	0.030
Lead (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Zinc (Total)	M16	mg/L	0.005	0.005	<0.005	<0.005	<0.005
Fluoride (by ISE)	C36	mg/L	0.01	0.97	0.96	0.93	0.98
Antimony (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Mercury (Total)	M16	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Nickel (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Alkalinity as $CaCO_3$	C10	mg/L	1	68	68	69	70
Calcium	M8	mg/L	0.1	21	21	22	22
Magnesium	M8	mg/L	0.1	0.9	0.9	0.7	0.7
Hardness Total $CaCO_3$	M8A	mg/L	.1	56	57	59	58
Sulfur as Sulfate	M8	mg/L	0.5	1.8	1.8	1.5	1.7
Volatile Organic Compounds							

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Job Description: Reticulation - Quarterly

Sample Identification: Date Taken: Test	Method	Units	LOR	Coraki Park 4/11/2025 12:00 AM 254203-1	Box Ridge 4/11/2025 12:00 AM 254203-2	Woodburn Park 4/11/2025 12:00 AM 254203-3	Riley's Hill Community Centre 4/11/2025 12:00 AM 254203-4
Chloroform	ORG12	µg/L	5	19	19	26	14
Bromodichloromethane	ORG12	µg/L	5	12	12	11	9
Dibromochloromethane	ORG12	µg/L	5	8	9	6	6
Bromoform	ORG12	µg/L	5	<5	<5	<5	<5
Total Trihalomethanes	ORG12	µg/L	5	40	40	43	29
Benzene	ORG12	µg/L	1	<1	<1	<1	<1
Toluene	ORG12	µg/L	5	<5	<5	<5	<5
Ethyl Benzene	ORG12	µg/L	5	<5	<5	<5	<5
ortho Xylene	ORG12	µg/L	5	<5	<5	<5	<5
meta and para Xylene	ORG12	µg/L	5	<5	<5	<5	<5
Total Xylene	ORG12	µg/L	5	<5	<5	<5	<5
Vinyl chloride	ORG12	µg/L	1	<1	<1	<1	<1
1,1-Dichloroethene	ORG12	µg/L	5	<5	<5	<5	<5
Dichloromethane	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloroethene (trans)	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloroethene (cis)	ORG12	µg/L	5	<5	<5	<5	<5
Total 1,2-Dichloroethene	ORG12	µg/L	5	<5	<5	<5	<5
1,1,1-Trichloroethane	ORG12	µg/L	5	<5	<5	<5	<5
Carbon Tetrachloride	ORG12	µg/L	3	<3	<3	<3	<3
1,2-Dichloroethane	ORG12	µg/L	3	<3	<3	<3	<3
Trichloroethene	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloropropane	ORG12	µg/L	5	<5	<5	<5	<5
1,1,2-Trichloroethane	ORG12	µg/L	5	<5	<5	<5	<5
Tetrachloroethene	ORG12	µg/L	5	<5	<5	<5	<5
Chlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
Styrene	ORG12	µg/L	5	<5	<5	<5	<5
1,4-Dichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
1,2,4-Trichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
4-Bromofluorobenzene (SS)		%		87	95	94	91

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REPORT: CHEM/ORGS

Lims1 Report No: 254203 / 00

Client: Richmond Valley Council

Job Description: Reticulation - Quarterly

Sample Identification: Date Taken: Test	Method	Units	LOR	Broadwater Community Centre 4/11/2025 12:00 AM 254203-5	Evans School 4/11/2025 12:00 AM 254203-6	Evans Head High Zone 4/11/2025 12:00 AM 254203-7	Casino Walker St 4/11/2025 12:00 AM 254203-8
Reticulation - Quarterly							
Iron (Soluble)	M8	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Soluble)	M8	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Aluminium (Soluble)	M8	mg/L	0.01	0.02	0.02	0.02	0.04
Colour True	P10	Colour Units	1	<1	<1	<1	<1
Copper (Total)	M16	mg/L	0.001	0.007	0.017	0.004	0.011
Lead (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	0.001
Zinc (Total)	M16	mg/L	0.005	<0.005	<0.005	0.005	0.005
Fluoride (by ISE)	C36	mg/L	0.01	0.99	1.00	1.00	1.10
Antimony (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Cadmium (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Chromium (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Mercury (Total)	M16	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Nickel (Total)	M16	mg/L	0.001	<0.001	<0.001	<0.001	<0.001
Alkalinity as $CaCO_3$	C10	mg/L	1	70	71	71	113
Calcium	M8	mg/L	0.1	22	22	22	25
Magnesium	M8	mg/L	0.1	0.8	0.6	0.7	15
Hardness Total $CaCO_3$	M8A	mg/L	.1	58	58	58	121
Sulfur as Sulfate	M8	mg/L	0.5	1.8	1.8	1.8	40
Volatile Organic Compounds							
Chloroform	ORG12	µg/L	5	10	16	15	39
Bromodichloromethane	ORG12	µg/L	5	8	12	12	24
Dibromochloromethane	ORG12	µg/L	5	6	8	9	11
Bromoform	ORG12	µg/L	5	<5	<5	<5	<5
Total Trihalomethanes	ORG12	µg/L	5	24	37	36	74
Benzene	ORG12	µg/L	1	<1	<1	<1	<1
Toluene	ORG12	µg/L	5	<5	<5	<5	<5
Ethyl Benzene	ORG12	µg/L	5	<5	<5	<5	<5
ortho Xylene	ORG12	µg/L	5	<5	<5	<5	<5
meta and para Xylene	ORG12	µg/L	5	<5	<5	<5	<5
Total Xylene	ORG12	µg/L	5	<5	<5	<5	<5
Vinyl chloride	ORG12	µg/L	1	<1	<1	<1	<1
1,1-Dichloroethene	ORG12	µg/L	5	<5	<5	<5	<5

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Dichloromethane	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloroethene (trans)	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloroethene (cis)	ORG12	µg/L	5	<5	<5	<5	<5
Total 1,2-Dichloroethene	ORG12	µg/L	5	<5	<5	<5	<5
1,1,1-Trichloroethane	ORG12	µg/L	5	<5	<5	<5	<5
Carbon Tetrachloride	ORG12	µg/L	3	<3	<3	<3	<3
1,2-Dichloroethane	ORG12	µg/L	3	<3	<3	<3	<3
Trichloroethene	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichloropropane	ORG12	µg/L	5	<5	<5	<5	<5
1,1,2-Trichloroethane	ORG12	µg/L	5	<5	<5	<5	<5
Tetrachloroethene	ORG12	µg/L	5	<5	<5	<5	<5
Chlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
Styrene	ORG12	µg/L	5	<5	<5	<5	<5
1,4-Dichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
1,2-Dichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
1,2,4-Trichlorobenzene	ORG12	µg/L	5	<5	<5	<5	<5
4-Bromofluorobenzene (SS)		%		90	86	88	86

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Sample Identification: Date Taken: Test	Method	Units	LOR	Casino North Res 4/11/2025 12:00 AM 254203-9	Casino Showground 4/11/2025 12:00 AM 254203-10
Reticulation - Quarterly					
Iron (Soluble)	M8	mg/L	0.01	<0.01	<0.01
Manganese (Soluble)	M8	mg/L	0.001	<0.001	<0.001
Aluminium (Soluble)	M8	mg/L	0.01	0.03	0.04
Colour True	P10	Colour Units	1	<1	<1
Copper (Total)	M16	mg/L	0.001	0.010	0.013
Lead (Total)	M16	mg/L	0.001	<0.001	<0.001
Zinc (Total)	M16	mg/L	0.005	<0.005	<0.005
Fluoride (by ISE)	C36	mg/L	0.01	1.10	1.07
Antimony (Total)	M16	mg/L	0.001	<0.001	<0.001
Arsenic (Total)	M16	mg/L	0.001	<0.001	<0.001
Cadmium (Total)	M16	mg/L	0.001	<0.001	<0.001
Chromium (Total)	M16	mg/L	0.001	<0.001	<0.001
Mercury (Total)	M16	µg/L	0.1	<0.1	<0.1
Nickel (Total)	M16	mg/L	0.001	<0.001	<0.001
Alkalinity as $CaCO_3$	C10	mg/L	1	112	150
Calcium	M8	mg/L	0.1	24	34
Magnesium	M8	mg/L	0.1	15	18
Hardness Total $CaCO_3$	M8A	mg/L	.1	120	161
Sulfur as Sulfate	M8	mg/L	0.5	39	34
Volatile Organic Compounds					
Chloroform	ORG12	µg/L	5	32	50
Bromodichloromethane	ORG12	µg/L	5	21	34
Dibromochloromethane	ORG12	µg/L	5	10	20
Bromoform	ORG12	µg/L	5	<5	<5
Total Trihalomethanes	ORG12	µg/L	5	63	104
Benzene	ORG12	µg/L	1	<1	<1
Toluene	ORG12	µg/L	5	<5	<5
Ethyl Benzene	ORG12	µg/L	5	<5	<5
ortho Xylene	ORG12	µg/L	5	<5	<5
meta and para Xylene	ORG12	µg/L	5	<5	<5
Total Xylene	ORG12	µg/L	5	<5	<5
Vinyl chloride	ORG12	µg/L	1	<1	<1
1,1-Dichloroethene	ORG12	µg/L	5	<5	<5
Dichloromethane	ORG12	µg/L	5	<5	<5
1,2-Dichloroethene (trans)	ORG12	µg/L	5	<5	<5

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Sample Identification: Date Taken: Test	Method	Units	LOR	Casino North Res 4/11/2025 12:00 AM 254203-9	Casino Showground 4/11/2025 12:00 AM 254203-10
1,2-Dichloroethene (cis)	ORG12	µg/L	5	<5	<5
Total 1,2-Dichloroethene	ORG12	µg/L	5	<5	<5
1,1,1-Trichloroethane	ORG12	µg/L	5	<5	<5
Carbon Tetrachloride	ORG12	µg/L	3	<3	<3
1,2-Dichloroethane	ORG12	µg/L	3	<3	<3
Trichloroethene	ORG12	µg/L	5	<5	<5
1,2-Dichloropropane	ORG12	µg/L	5	<5	<5
1,1,2-Trichloroethane	ORG12	µg/L	5	<5	<5
Tetrachloroethene	ORG12	µg/L	5	<5	<5
Chlorobenzene	ORG12	µg/L	5	<5	<5
Styrene	ORG12	µg/L	5	<5	<5
1,4-Dichlorobenzene	ORG12	µg/L	5	<5	<5
1,2-Dichlorobenzene	ORG12	µg/L	5	<5	<5
1,2,4-Trichlorobenzene	ORG12	µg/L	5	<5	<5
4-Bromofluorobenzene (SS)		%		91	90