



2022-2023

SPID498

**Drinking Water
Service Provider
Annual Report**

Requirements of the Report

This report documents the performance of Tablelands Regional Council's (TRC) drinking water supply for the 2022-2023 Financial Year. The report summarises TRC's performance against the Drinking Water Quality Management Plan (DWQMP) as required by the Water Supply Safety and Reliability Act 2008.

The DWQMP supports TRC in ensuring that a standard of water quality is provided throughout the Tablelands region. TRC has 13 water supply schemes, approximately 9,554 water meter connections and more than 26,000 residents. The water quality standard that TRC strives to achieve is determined by the criteria within the Australian Drinking Water Guidelines (ADWG), in addition to any directions provided by the Department of Regional Development, Manufacturing and Water (RDMW).

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**For more information,
contact TRC on
1300 362 242 or
info@trc.qld.gov.au**



About this report

This report aims to communicate our performance to our customers and community members who have an interest in Tablelands Regional Council's Drinking water, including:

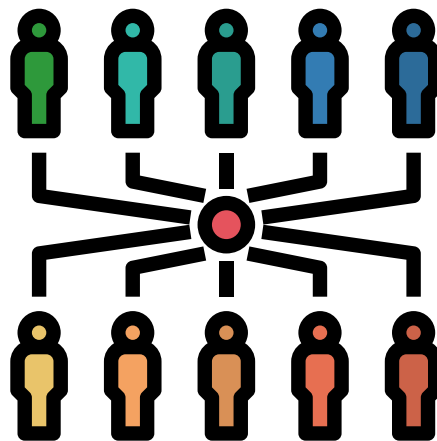
- Customers
- Government agencies
- The water industry
- Businesses and contractors
- Researchers

This report assists the Regulator in determining whether TRC has complied with the approved DWQMP. It is submitted to the Regulator to fulfil our regulatory requirement, and is also made available to our customers through our website, and by inspection upon request at the Council Office.

About Us

The Tablelands is a region where we prosper and enjoy an enviable lifestyle within a pristine environment, realising our full potential in smart, connected rural communities.

To view our Corporate and Operational Plan visit the [website](#).



Customer Commitment

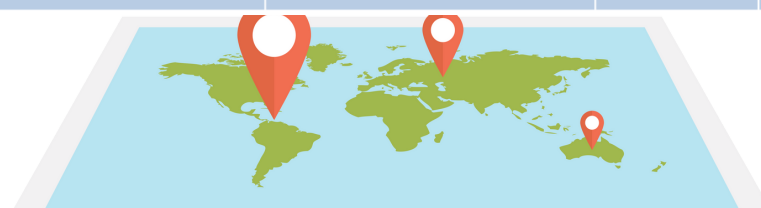


You can view our Customer Service Standards 2020-2025 online at

www.trc.qld.gov.au/download/water-wastewater-customer-service-standards/

Scheme Overview

Scheme	Water Source(s)	Treatment/Disinfection	Treatment Plant Capacity	Towns Supplied
Atherton	<ul style="list-style-type: none"> Upper Barron Intake (Emergency Supply); and Groundwater Bores 	Physical screening of Surface waters if/when in use; and Chlorination. Chlorination only at Bores.	-	Atherton, Kairi, Tolga, Tinaroo township, Rangeview and Tandara
Ravenshoe	<ul style="list-style-type: none"> North Cedar Creek; (primary) Millstream River; (Backup Supply) and South Cedar Creek (Emergency Supply); 	Physical screening; and Chlorination.	-	Ravenshoe township
Cassowary	<ul style="list-style-type: none"> South Cedar Creek 	Physical screening; and Chlorination.	-	Cassowary Estate, Ravenshoe
Bellview	<ul style="list-style-type: none"> Vine Creek Intake 	Physical screening; and Chlorination.	-	Bellview Estate, Ravenshoe
Malanda Area (incl. Davies Road)	<ul style="list-style-type: none"> Johnstone River Water Intake; and Groundwater Bore 	Coagulation and Filtration.	2.59ML/d 1.2ML/d	Malanda, Johnstone River Estate (Davies Road)
Herberton	<ul style="list-style-type: none"> Wild River Dam 	Coagulant; Filtration; UV Treatment; Chlorination.	1.75ML/d	Herberton
High Country	<ul style="list-style-type: none"> Groundwater Bore 	Chlorination.	-	High Country Estate, Wondecla
Millaa Millaa	<ul style="list-style-type: none"> Beatrice River 	Coagulation, Flocculation, Filtration, and Chlorination.	0.9ML/d	Millaa Millaa
Millstream North & South (combined)	<ul style="list-style-type: none"> Millstream River 	Physical screening; and Chlorination.	-	Millstream Estate (North and South)
Mt Garnet & Tabo	<ul style="list-style-type: none"> Herbert River; and Tabo Dam (Emergency Supply) 	Microfiltration and Chlorination.	1.8ML/d	Mt Garnet and Tabo
Tinaroo Park	<ul style="list-style-type: none"> Groundwater Bore 	Chlorination.	-	Tinaroo Park Estate, Barrine
Yungaburra	<ul style="list-style-type: none"> Tinaroo Dam 	Coagulation, Flocculation, Filtration, and Chlorination.	2.59ML/d	Yungaburra Township
Walkamin	<ul style="list-style-type: none"> Groundwater Bores 	Chlorination.	-	Walkamin



Implementation

The Drinking Water Quality Management Plan was developed by TRC with consultation occurring at all levels of operations to ensure the plan remained relevant.

Throughout the 2022/23 period, TRC continued regular monitoring in each water supply scheme to monitor the raw water characteristics and assess the plant performance to ensure water quality and protect public health. TRC implement operational limits as well as alert and critical limits to ensure potable water supplied to the community adheres to the water quality objectives in the [Australian Drinking Water Guidelines](#). TRC conduct weekly operational monitoring, monthly E.coli verification, and bi annual intensive verification testing.

We maintain a collaborative relationship with both Queensland Health (QH) and the Department of Regional Development, Manufacturing and Water (DRDMW).

Water Strategy

In April 2019 we endorsed the development of a region-wide Water Business Strategy and Infrastructure Development Plan and, after much advocacy on behalf of our community, recently secured a \$607,000 grant from the Queensland Department of State Development, Manufacturing, Infrastructure and Planning's (DSDMIP's) Maturing the Infrastructure Pipeline Program. The strategy determined the most efficient and effective solution to improve the reliability of our water sources and meet water quality requirements in accordance with Australian Drinking Water Guidelines. It also identified options for optimising our water supply infrastructure to ensure potable water can be provided to the community at the lowest possible whole-of-life cost while meeting both current and future demands.

Throughout 2022 and 2023, TRC have completed significant improvement projects relating to water quality.



“ We are committed to resolving the frequent and long-term boil water notices that impact several of our water supply schemes. We need to be considered about how we improve and invest in our water infrastructure to ensure we implement long-term solutions that deliver improved water in the most cost effective way for decades to come. ”

Water Quality Improvements

A new 3.9ML reservoir, associated pipework and upgrades to existing intakes were completed in the Ravenshoe Water Supply Scheme in 2022. The reservoir was commissioned in August 2022, and construction of new pipelines that will connect Millstream Estates to the Ravenshoe Scheme are underway with construction due to be completed by early 2024.

The design and construction stage of the project for the new water treatment plant and booster pump stations to connect Millstream Estates to the Ravenshoe Scheme is in progress, with commissioning of the new water treatment plant expected in late 2024.

Council is about to award a contract to connect Malanda and Davies Road water supply schemes with completion due at the end of 2024. The amalgamation of these schemes will result in higher water reliability and water quality security for the region. The project will also include a new 3.19ML reservoir to be located at the existing Malanda High Level reservoir site, and the construction of a 4km long pipeline from the new reservoir to the existing Davies Road storage reservoir on Mathers Road.

Scheme specific improvements can be viewed on our website:

<https://www.trc.qld.gov.au/services-and-facilities/water/water-supply/>

Risk Management Improvement

TRC undertakes risk assessments at each step in the water supply process. By understanding the risks, TRC can implement appropriate barriers to preserve community health and wellbeing. This review process includes discussing key concerns and determining their effect on water supply. Appendix C contains TRC's current Risk Management Improvement Plan (RMIP), including risk mitigation projects that are ongoing or completed. This plan can be affected by internal processes, long term financial planning, incidents, legislative requirements and customer complaints.

TRC reviews the RMIP on an annual basis (minimum) either through sessions with the relevant personnel or through document reviews to ensure continual improvement and to track progress for reporting to the Regulator. Water quality incidents, when they occur, can also influence the ranking of a risk management improvement project and timeframes can be amended outside of formal review processes.

Compliance with Water Quality Criteria

TRC undertakes operational and verification monitoring within the supply schemes as detailed in the DWQMP. These samples are collected from various locations and stages in the water supply process, from source water, to storage and the reticulation.



Verification Monitoring

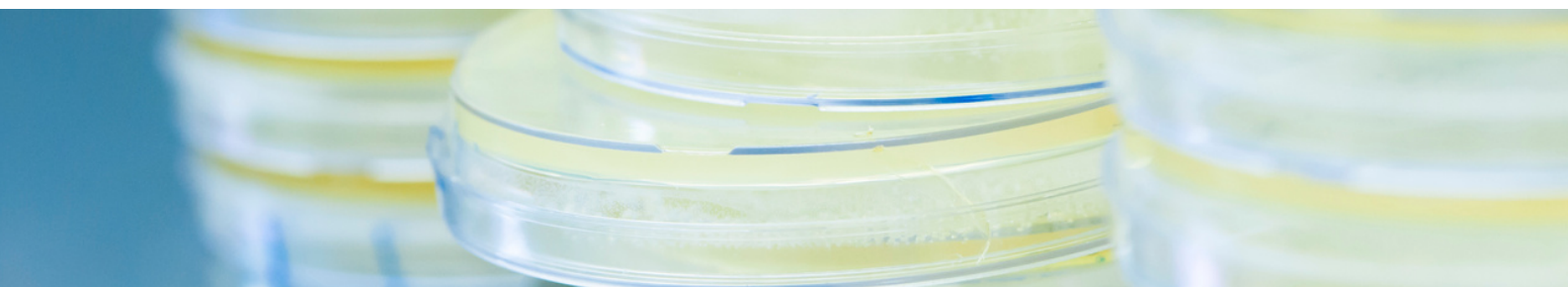


Operational monitoring is one tool used to assess the performance of preventative measures through the collection of measurements and observations. Online analysers have been implemented at various sites in the water supply to assess the performance of the infrastructure. These online analysers can be observed and monitored by TRC's treatment operators and specific reticulation personnel using the Supervisory Control and Data Acquisition (SCADA) system, triggering alarms to on call / duty operators. Weekly sampling is completed internally by TRC's Treatment Plant Operators across each of the schemes.

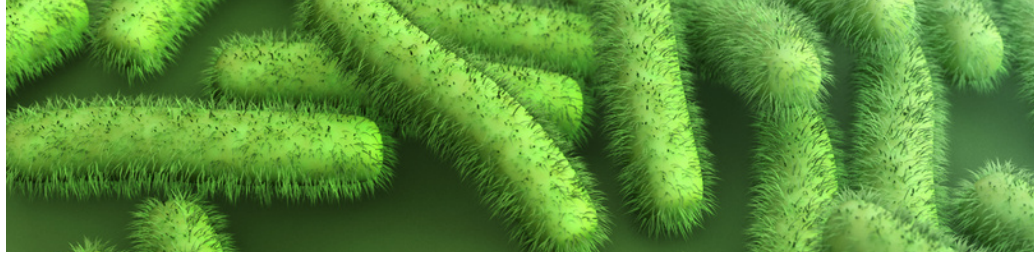
TRC's Treatment Plant Operators collect thousands of samples each year across the Tablelands region, at varying frequencies as defined by the DWQMP. Various parameters are analysed in this program including, but not limited to, chlorine, turbidity, E. Coli, pH, metals, pesticides, and chemicals. All verification samples collected from the source and reticulated water are sent to the NATA accredited Cairns Regional Council (CRC) Laboratory for analysis. TRC maintains a close working relationship with the laboratory which ensures prompt service provisions due to incidents, sometimes at short notice.

All verification monitoring within the reticulation network is assessed against the health limits in the ADWG, in association with the Public Health Regulation 2005. In the 2022-23 financial year, TRC maintained a high compliance level across all water supply schemes. The percentage of E.coli compliance for each scheme has been summarised . For further information please refer to the Appendix A for a summary of TRC's compliance with the water quality criteria.

Additional quality control measures are being implemented to assist TRC to quickly identify if a verification sample is not collected, as this did occur during this reporting period. TRC continues to work towards presenting the information as is recommended in the guideline, and see this body of work concluding in the next financial year.



E.coli



TRC currently monitors E. coli through internal methods using the Colilert blister packs. Selected samples as detailed in the DWQMP are also sent to the NATA accredited laboratory quality assurance purposes. The overall compliance for E. coli in all TRC's drinking water supply areas are listed in the table below and in Appendix B.

Scheme	No. of samples collected in the previous 12 months	% Compliance
Atherton	552	100%
Bellview	55	100%
Cassowary	37	100%
Herberton	160	100%
High Country	53	100%
Malanda/Davies	332	100%
Millaa Millaa	165	100%
Millstream North & South	77	100%
Mount Garnet & Tabo	165	100%
Ravenshoe	94	100%
Tinaroo Park	50	100%
Walkamin	50	100%
Yungaburra	256	100%

Other Parameters

TRC monitors other parameters including physical chemistry, nutrients, metals, pesticides and other chemicals. There were a number of instances where an aesthetic limit was exceeded. These exceedances typically relate to the concentration of aluminium, iron, manganese, copper, true colour and turbidity within the raw water and reticulation supply. When aesthetic limits are exceeded adverse taste, odour or visual appearance may be present, however there is no risk to public health. Appendix A contains an export of NATA Accredited test results.

Incidents Reported to the Regulator



Under section 102 of the Water Supply (Safety and Reliability) Act 2008 TRC must report noncompliance with water quality criteria and, under section 102A any prescribed incident to the Regulator.

A number of the reported incidents for this reporting period were in relation to insufficient contact time in surface water disinfection only schemes, and were Turbidity related. Two incidents were the result of a spike in Lead & Copper from a singular sample within the Tinaroo Park Water Supply Scheme. This incident, though not a risk to public health, was thoroughly investigated and resulted in the replacement of some sample taps. An overview of the notifications are provided in the following table.

Scheme	Sample Point	Parameter	Date	Incident Number	Corrective and Preventative Actions
Millstream Estates	Millstream River - Raw	CT-Event Based (Turbidity)	02/12/2022	DWI-498-22-09979	BWN Issued. TRC actively monitored the supply and once the turbidity levels had returned and were maintained to ambient levels and Chlorine CT was reliably achieved the BWN was retracted. Pipelines are currently under construction to connect Millstream Estates to the Ravenshoe Supply. Once the Ravenshoe WTP is commissioned, Millstream Estates will receive water supplied through the new Ravenshoe WTP – thus ending reoccurring BWN's triggered by turbidity in the current disinfection only, surface supply.
Cassowary	South Cedar Creek - Raw	CT-Event Based (Turbidity)	06/01/2023	DWI-498-23-10108	BWN Issued. TRC actively monitored the supply and once the turbidity levels had returned and were maintained to ambient levels and Chlorine CT was reliably achieved the BWN was retracted. Cassowary is being considered in TRC's Water Quality Improvement Plan to reduce the frequency and duration of BWN's triggered by turbidity.
Tinaroo Park	Designated Sample Point	Lead	27/03/2023	DWI-498-23-10230	Extensive sampling and testing program commenced to identify exceedance source. Reservoir cleaning, extensive flushing, and new sample tap installations were also undertaken. Identified that the exceedance was likely due to the aged sample tap that was replaced.
Tinaroo Park	Designated Sample Point	Copper	27/03/2023	DWI-498-23-10229	Extensive sampling and testing program commenced to identify exceedance source. Reservoir cleaning, extensive flushing, and new sample tap installations were also undertaken. Identified that the exceedance was likely due to the aged sample tap that was replaced.

Other notifications

We test for Cryptosporidium monthly in our surface water disinfection only schemes. From time to time, we detect non-infectious, non-viable cryptosporidium. When this happens, we notify our Co-Regulators, QH and the RDMW. Cryptosporidium results are included in Appendix A.



Customer Complaints



TRC is required to report on the number of complaints, general details of complaints, and the responses. Throughout the year the following complaints about water quality were received and managed by TRC.

Scheme	Suspected Illness	Other (BWN / general)	Colour	Taste and Odour	Total
Atherton	1	9	10	1	21
Cassowary	-	1	1	-	2
Bellview	-	-	-	-	0
Herberton	-	1	-	-	1
High Country	-	-	-	-	0
Malanda & Davies Rd	-	2	1	-	3
Millaa Millaa	-	-	-	-	0
Millstream (North & South)	-	4	6	-	10
Mt Garnet & Tabo	-	1	1	2	4
Tinaroo Park	-	-	-	-	0
Ravenshoe	-	1	2	-	3
Yungaburra	-	1	-	-	1
Walkamin	-	-	-	-	0
Total	1	20	21	3	45

Taste & Odour

Three (3) taste and odour complaints were received in the 2022/23 period, a large decrease from the previous period where there were twelve (12) complaints. Depending on the complaint, corrective actions may include additional testing, flushing of pipes near the residential property or cleaning the associated intake. Odour complaints are usually in relation to chlorine and tend to correlate with the taste and odour threshold amounts described in the ADWG. In this reporting period, the complaints, mainly around taste, have decreased significantly, and that appears to indicate customers are now used to water disinfection in the southern schemes.



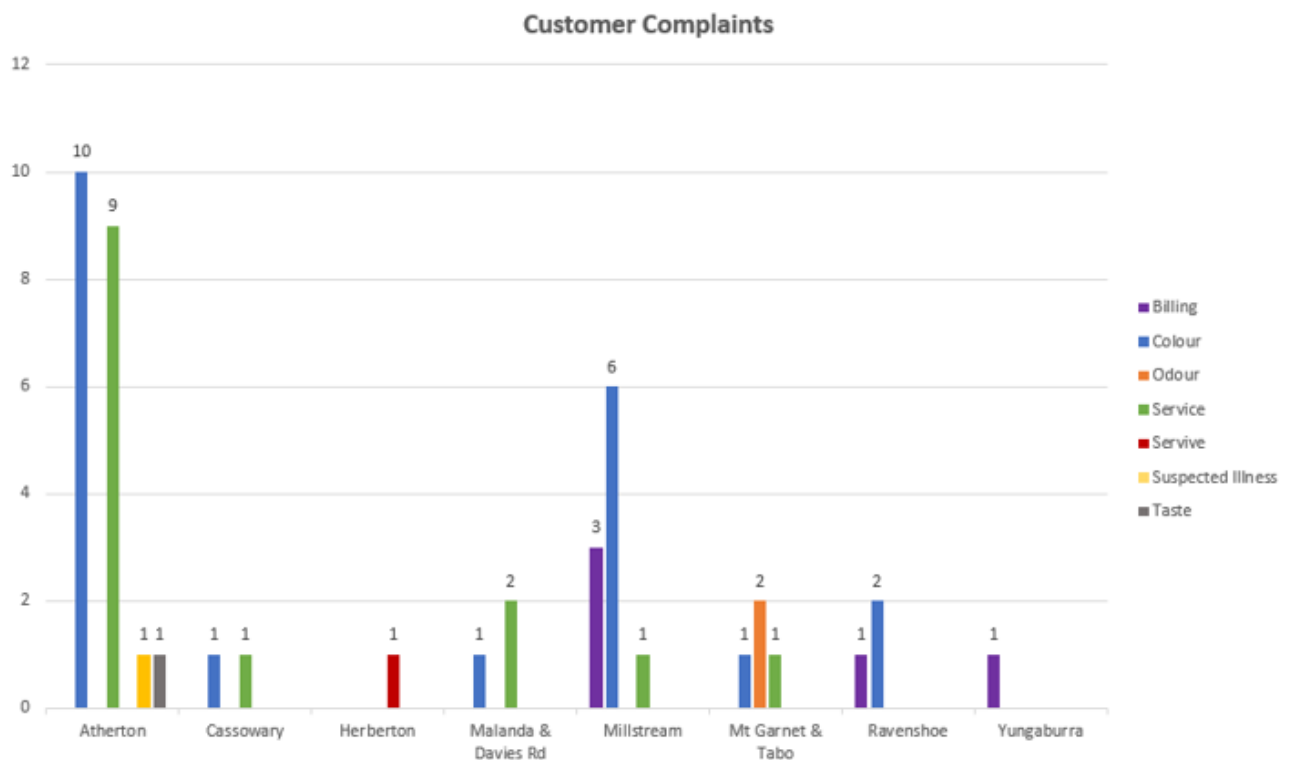
Discoloured Water



Water discolouration is typically experienced in areas where works being undertaken on the pipeline causes a change to the water flow. A change in direction or velocity can cause sediment within the line to become suspended. In other areas, reticulation supplies can experience increased turbidity during rain events. A number of TRC's schemes do not have treatment infrastructure to assist in removing turbidity from the water supply. When rain events occur, internal water reticulation personnel undertake mains flushing and scouring to remove built up sediment within the pipes and engage with Treatment Operators to complete testing of the network to ensure a sufficient residual and acceptable turbidity levels.

Other Complaints

TRC received 20 requests in 2022/23 regarding water quality, service and billing, which was not categorised as colour, taste or odour. TRC actively engages with the community by means of traditional and social media regarding the water strategy, water quality, water supply schemes and other water related information. Boil water enquiries tend to correlate with the wet season and TRC commonly has a few community enquiries during this period.



DWQMP Review Outcomes

Please refer to Appendix D for summary of changes given to the Department of Regional Development, Manufacturing and Water during the last review.

As the Water Business Strategy and Water Quality Improvement Program progress and additional risks are mitigated, further changes will be required to the Drinking Water Quality Management Plan, with the next review due in 2024.

DWQMP Audits

External audits are conducted at intervals advised in the Information Notice for the Decision with regards to TRC's DWQMP approvals. TRC achieved compliance in all aspects of the audit and have commenced actions to implement the small number of improvement opportunities identified during the audit.

The 2021 Audit report acknowledged TRC's full and proactive participation in the audit and their openness and preparedness for interview. The audit found that the water supply systems were consistent with their description in the DWQMP and there was adequate compliance between the current version of the DWQMP and the findings during the audit, noting TRC treat the document as 'living' to ensure it remains current and relevant.

The opportunities to be implemented and other improvement programs will be tracked and reported periodically to the Regulator through the Risk Management Improvement Program, which remains a living document. The next regular audit is scheduled for 2025.



Glossary



ADWG	Australian Drinking Water Guidelines
E.coli	Escherichia coli, a bacterium which is considered to indicate the presence of faecal contamination and therefore potential health risk
HACCP	Hazard Analysis and Critical Control Points for protecting drinking water quality
mg/L	Milligrams per litre
µg/L	Micrograms per litre
ML/d	Megalitres per day
NTU	Nephelometric Turbidity Units
MPN/100ml	Most probably number per 100 millilitres
CFU/100ml	Colony forming units per 100 millilitres
<	Less than
>	More than
CT	Contact Time
Regulator	RDMW and/or QH
RDMW	Department of Regional Development, Manufacturing and Water
QH	Queensland Health
WSP	Water Service Provider
Laboratory	NATA Accredited Provider; TRC engages Cairns Regional Council Laboratory Services
BWN	Boil Water Notices
DNC	Do Not Consume
SOP	Standard Operating Procedures
TRC	Tablelands Regional Council
HBT	Health Based Targets
WSSR Act	Water Supply Safety & Reliability Act 2008
Extreme Event	A water quality event that a Service Provider can/could not manage within existing processes and/or that may impact on the health of customers
CSA	Community Service Announcement
DWQMP	Drinking Water Quality Management Plan
WaterVal	Validation of Chlorination
T	True
F	False
Pt/Co	Platinum-Cobalt Scale
mg/L SiO ₂	Milligrams per litre silica units
mg/L CaCO ₃	Milligrams per litre calcium carbonate
psu	Practical Salinity Unit

A close-up photograph of a chrome faucet with water flowing out. The water is clear and bubbly. The background is a soft, out-of-focus blue. A blue and green diagonal graphic element is in the bottom left corner.

APPENDIX A

Drinking Water Quality Performance

e



A close-up photograph of a chrome faucet with water flowing out. The water is clear and bubbly, creating a dynamic texture. The background is a soft, out-of-focus blue.

APPENDIX A.1

Reticulation
Water Summary
Statistics



ATHERTON Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	8	8	<1	1.5	0	0.54	<= 15.0 Pt/Co units	Pt/Co units
Calcium	8	8	12	15	13	13.15		mg/L
Chloride	8	8	11	25	12	14.77	<= 250.0 mg/L	mg/L
E coli	24	24	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	8	8	190	210	190	193.11		µS/cm
Free Chlorine	8	8	1.4	2.4	1.95	1.92	<= 5.0 mg/L	mg/L
ICPMS Aluminium	8	8	0.015	0.015	0	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	8	8	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	8	8	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	8	8	0.005	0.022	0.0155	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	8	8	<0.015	0.017	0	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	8	8	0.0005	0.0012	0.00075	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	8	8	<0.0002	0.0027	0	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	8	8	<0.0005	0.0006	0	0.00	<= 0.02 mg/L	mg/L
Magnesium	8	8	9	11	9.8	9.90		mg/L
pH	8	8	7.3	7.9	7.55	7.57	6.5 - 8.5	.
Salinity	8	8	0.0903	0.1	0.0929	0.09		psu
Sodium	8	8	10	12	11	11.08	<= 180.0 mg/L	mg/L
Sulphate	8	8	<1	<1	0	0.68	<= 250.0 mg/L	mg/L
Total Alkalinity	8	8	72	87	77	78.29		mg CaCO ₃ / L
Total Chlorine	8	8	1.4	2.5	2	1.99	<= 5.0 mg/L	mg/L
Total Dissolved Solids	8	8	140	150	145	144.89	<= 600 mg/L	mg/L
Total Hardness	8	8	70	83	71.5	74.01	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	8	8	<1	1.2	0	0.88		mg/L
Turbidity	8	8	0.1	0.4	0.1	0.13	<= 5 NTU	NTU

DAVIES ROAD Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	<1	<1	<1	0.46	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	16	18	17	17.12		mg/L
Chloride	4	4	12	12	12	12.00	<= 250.0 mg/L	mg/L
Electrical Conductance	4	4	220	240	230	230.00		µS/cm
Free Chlorine	4	4	2	2.3	2.15	2.15	<= 5.0 mg/L	mg/L
ICPMS Aluminium	4	4	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.003	0.004	0.0035	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	<0.0002	<0.0002	<0.0002	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	4	4	8.2	8.8	8.5	8.47		mg/L
pH	4	4	7.9	8.2	8.05	8.06	6.5 - 8.5	.
Salinity	4	4	0.108	0.114	0.111	0.11		psu
Sodium	4	4	18	19	18.5	18.71	<= 180.0 mg/L	mg/L
Sulphate	4	4	3.5	4.2	3.85	3.86	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	95	110	102.5	102.06		mg CaCO ₃ / L
Total Chlorine	4	4	2.1	2.3	2.2	2.20	<= 5.0 mg/L	mg/L
Total Dissolved Solids	4	4	140	150	145	145.76	<= 600 mg/L	mg/L
Total Hardness	4	4	74	81	77.5	77.45	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	1.2	0.6	0.80		mg/L
Turbidity	4	4	0.1	0.1	0.1	0.09	<= 5 NTU	NTU

HERBERTON Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	6	6	<1	3	1.65	1.63	<= 15.0 Pt/Co units	Pt/Co units
Calcium	6	6	1.4	2.7	2.15	2.18		mg/L
Chloride	6	6	14	15	14	14.52	<= 250.0 mg/L	mg/L
E coli	6	5	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	6	6	62	68	65.5	65.55		µS/cm
Free Chlorine	6	6	0.8	1.6	1.3	1.27	<= 5.0 mg/L	mg/L
ICPMS Aluminium	6	6	0.03	0.056	0.0365	0.04	<= 0.2 mg/L	mg/L
ICPMS Antimony	6	6	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	6	6	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	6	6	0.006	0.068	0.0115	0.02	<= 1.0 mg/L	mg/L
ICPMS Iron	6	6	0.017	0.143	0.031	0.05	<= 0.3 mg/L	mg/L
ICPMS Lead	6	6	0.0005	0.0017	0.00095	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	6	6	0.0004	0.0014	0.00045	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	6	6	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	6	6	0.27	2.1	0.355	0.65		mg/L
pH	6	6	6.9	7.2	7.15	7.11	6.5 - 8.5	.
Salinity	6	6	0.0347	0.0371	0.0363	0.04		psu
Sodium	6	6	8.4	9.7	9.35	9.26	<= 180.0 mg/L	mg/L
Sulphate	6	6	1	1.1	1.1	1.08	<= 250.0 mg/L	mg/L
Total Alkalinity	6	6	6.2	8.7	7.65	7.61		mg CaCO ₃ / L
Total Chlorine	6	6	0.87	1.6	1.3	1.31	<= 5.0 mg/L	mg/L
Total Dissolved Solids	6	6	48	67	50.5	54.53	<= 600 mg/L	mg/L
Total Hardness	6	6	5.6	14	7.4	8.10	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	6	6	<1	2	0	1.01		mg/L
Turbidity	6	6	0.2	0.4	0.25	0.26	<= 5 NTU	NTU

* E.coli sampling for February 2023 missed

HIGH COUNTRY Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	<1	<1	0.68	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	2.2	6.8	4.5	4.50		mg/L
Chloride	2	2	6.8	8.2	7.5	7.54	<= 250.0 mg/L	mg/L
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	65	150	107.5	105.75		µS/cm
Free Chlorine	2	2	0.58	0.98	0.78	0.78	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.003	0.002	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	<0.0002	<0.0002	<0.0002	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0022	0.0024	0.0023	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	1.7	4.9	3.3	3.28		mg/L
pH	2	2	6.4	6.9	6.65	6.63	6.5 - 8.5	.
Salinity	2	2	0.0359	0.0725	0.0542	0.05		psu
Sodium	2	2	7.9	16	11.95	11.88	<= 180.0 mg/L	mg/L
Sulphate	2	2	2.9	3.4	3.15	3.15	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	17	58	37.5	37.85		mg CaCO ₃ / L
Total Chlorine	2	2	0.58	0.98	0.78	0.78	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	85	150	117.5	119.38	<= 600 mg/L	mg/L
Total Hardness	2	2	12	37	24.5	24.83	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	<1	<1	0.15		mg/L
Turbidity	2	2	<0.1	<0.1	0.05	0.06	<= 5 NTU	NTU

* E.coli sampling for February 2023 missed

MALANDA Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	6	5	1	1.1	1.05	1.04	<= 15.0 Pt/Co units	Pt/Co units
Calcium	6	5	2.2	17	9.5	9.53		mg/L
Chloride	6	5	9.8	11	10.4	10.47	<= 250.0 mg/L	mg/L
Electrical Conductance	6	5	68	260	166	165.43		µS/cm
Free Chlorine	6	5	1.6	2.5	2	2.03	<= 5.0 mg/L	mg/L
ICPMS Aluminium	6	5	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	6	5	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	6	5	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	6	5	0.002	0.008	0.0045	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	6	5	<0.015	0.023	0.0185	0.02	<= 0.3 mg/L	mg/L
ICPMS Lead	6	5	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	6	5	0.0003	0.0031	0.00155	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	6	5	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	6	5	1.9	11	6.45	6.41		mg/L
pH	6	5	7.4	8.2	7.85	7.85	6.5 - 8.5	.
Salinity	6	5	0.0372	0.127	0.08195	0.08		psu
Sodium	6	5	7.7	24	15.85	15.73	<= 180.0 mg/L	mg/L
Sulphate	6	5	<1	3	1.5	1.88	<= 250.0 mg/L	mg/L
Total Alkalinity	6	5	16	130	74	72.27		mg CaCO ₃ / L
Total Chlorine	6	5	1.6	2.5	2	2.04	<= 5.0 mg/L	mg/L
Total Dissolved Solids	6	5	48	200	114.5	119.24	<= 600 mg/L	mg/L
Total Hardness	6	5	13	88	50	50.41	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	6	5	<1	<1	<1	0.73		mg/L
Turbidity	6	5	0.1	0.2	0.1	0.13	<= 5 NTU	NTU

*New sample site added to program in May 2023, no samples *missed, site did not exist in 2022

MILLAA MILLAA Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	2.3	34	18.15	18.40		Pt/Co units
Calcium	4	4	2.6	2.7	2.65	2.67		mg/L
Chloride	4	4	9.4	9.6	9.5	9.47	<= 250.0 mg/L	mg/L
Electrical Conductance	4	4	63	65	64	63.90		µS/cm
Free Chlorine	4	4	1.8	1.9	1.85	1.86	<= 5.0 mg/L	mg/L
ICPMS Aluminium	4	4	0.1	1.04	0.57	0.57	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.009	0.012	0.0105	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.035	0.301	0.168	0.17	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	<0.0005	0.00025	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0005	0.004	0.00225	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	4	4	1.9	1.9	1.9	1.92		mg/L
pH	4	4	7.5	7.5	7.5	7.48	6.5 - 8.5 .	.
Salinity	4	4	0.0351	0.0359	0.0355	0.04		psu
Sodium	4	4	6.4	6.8	6.6	6.65	<= 180.0 mg/L	mg/L
Sulphate	4	4	<1	1.1	0.55	1.04	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	14	17	15.5	15.65		mg CaCO ₃ / L
Total Chlorine	4	4	1.9	2	1.95	1.94	<= 5.0 mg/L	mg/L
Total Dissolved Solids	4	4	42	59	50.5	50.99	<= 600 mg/L	mg/L
Total Hardness	4	4	14	15	14.5	14.44	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	16	8	8.20		mg/L
Turbidity	4	5	0.4	8.2	1.1	2.69	<= 5 NTU	NTU

MOUNT GARNET & TABO Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	<1	2.4	1.2	1.56	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	2.5	2.8	2.65	2.66		mg/L
Chloride	4	4	12	14	13	13.37	<= 250.0 mg/L	mg/L
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	4	4	81	85	83	83.05		µS/cm
Free Chlorine	4	4	0.97	1.8	1.385	1.41	<= 5.0 mg/L	mg/L
ICPMS Aluminium	4	4	<0.015	0.016	0.008	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.025	0.026	0.0255	0.03	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.033	0.038	0.0355	0.04	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	0.0005	0.0018	0.00115	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0017	0.0018	0.00175	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	4	4	1.4	2.2	1.8	1.83		mg/L
pH	4	4	7.2	7.2	7.2	7.20	6.5 - 8.5	.
Salinity	4	4	0.0429	0.0449	0.0439	0.04		psu
Sodium	4	4	9.5	12	10.75	10.63	<= 180.0 mg/L	mg/L
Sulphate	4	4	1	1.1	1.05	1.05	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	19	20	19.5	19.27		mg CaCO ₃ / L
Total Chlorine	4	4	1	2	1.5	1.50	<= 5.0 mg/L	mg/L
Total Dissolved Solids	4	4	57	79	68	68.07	<= 600 mg/L	mg/L
Total Hardness	4	4	12	16	14	14.03	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	1.2	0.6	0.85		mg/L
Turbidity	4	4	0.1	0.1	0.1	0.12	<= 5 NTU	NTU
Apparent Colour	4	4	<1	2.4	1.2	1.56	<= 15.0 Pt/Co units	Pt/Co units

* E.coli sampling for February 2023 missed

RAVENSHOE Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	6	20	9.1	10.93	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	1.8	2.8	2.3	2.29		mg/L
Chloride	4	4	9.1	9.9	9.35	9.45	<= 250.0 mg/L	mg/L
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	4	4	56	60	58.5	58.20		µS/cm
Free Chlorine	4	4	1.6	1.7	1.6	1.62	<= 5.0 mg/L	mg/L
ICPMS Aluminium	4	4	0.031	0.126	0.077	0.08	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.002	0.018	0.0105	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.268	0.522	0.3555	0.38	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	0.0008	0	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0031	0.0169	0.00555	0.01	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	4	4	1.1	1.6	1.35	1.32		mg/L
pH	4	4	7.3	7.7	7.5	7.51	6.5 - 8.5	.
Salinity	4	4	0.0322	0.0337	0.03315	0.03		psu
Sodium	4	4	6.5	7.1	6.85	6.85	<= 180.0 mg/L	mg/L
Sulphate	4	4	<1	1.2	0.55	0.81	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	10	15	12.5	12.78		mg CaCO ₃ / L
Total Chlorine	4	4	1.6	1.7	1.7	1.67	<= 5.0 mg/L	mg/L
Total Dissolved Solids	4	4	44	64	49	51.59	<= 600 mg/L	mg/L
Total Hardness	4	4	9.8	13	11.5	11.30	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	2.4	0	0.83		mg/L
Turbidity	4	4	0.8	3.7	1.4	1.82	<= 5 NTU	NTU

* E.coli sampling for February 2023 missed

TINAROO PARK Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	<1	<1	<1	0.14	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	0.8	0.89	0.845	0.84		mg/L
Chloride	4	4	10	11	10.5	10.61	<= 250.0 mg/L	mg/L
Electrical Conductance	4	4	87	110	98.5	99.95		µS/cm
Free Chlorine	4	4	0.03	1.8	0.915	0.91	<= 5.0 mg/L	mg/L
ICPMS Aluminium	4	4	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	0.0007	0.00035	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.005	4.33	0.0315	1.10	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	<0.015	0.027	0.0135	0.01	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	0.0375	0.0015	0.01	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	<0.0002	0.0009	0.00045	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	0.0009	0.0216	0.01125	0.01	<= 0.02 mg/L	mg/L
ICPMS Zinc	4	4	5.88	5.88	5.88	5.88	<= 3.0 mg/L	mg/L
Magnesium	4	4	1.3	1.3	1.3	1.31		mg/L
pH	4	4	6.4	6.5	6.45	6.44	6.5 - 8.5	.
Salinity	4	4	0.0456	0.0572	0.0514	0.05		psu
Sodium	4	4	15	16	15.5	15.09	<= 180.0 mg/L	mg/L
Sulphate	4	4	<1	<1	<1	0.77	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	27	37	32	31.95		mg CaCO ₃ / L
Total Chlorine	4	4	0.05	1.8	0.925	0.92	<= 5.0 mg/L	mg/L
Total Dissolved Solids	4	4	63	76	69.5	69.50	<= 600 mg/L	mg/L
Total Hardness	4	4	7.4	7.6	7.5	7.46	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	1.2	0.6	0.85		mg/L
Turbidity	4	4	0.1	0.2	0.15	0.15	<= 5 NTU	NTU

WALKAMIN Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	<1	<1	0.29	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	11	12	11.5	11.51		mg/L
Chloride	2	2	22	24	23	22.85	<= 250.0 mg/L	mg/L
Electrical Conductance	2	2	260	260	260	259.50		µS/cm
Free Chlorine	2	2	0.16	2.2	1.18	1.18	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	<0.015	<0.015	0.00	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.014	0.043	0.0285	0.03	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	0.001	0.0017	0.00135	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	<0.0002	<0.0002	<0.0002	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	14	14	14	14.26		mg/L
pH	2	2	6.9	7	6.95	6.99	6.5 - 8.5	.
Salinity	2	2	0.124	0.127	0.1255	0.13		psu
Sodium	2	2	19	21	20	19.70	<= 180.0 mg/L	mg/L
Sulphate	2	2	1.3	1.4	1.35	1.36	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	92	93	92.5	92.49		mg CaCO ₃ / L
Total Chlorine	2	2	0.17	2.2	1.185	1.19	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	200	200	200	200.53	<= 600 mg/L	mg/L
Total Hardness	2	2	85	88	86.5	86.37	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	1.2	1.4	1.3	1.31		mg/L
Turbidity	2	2	0.1	0.1	0.1	0.08	<= 5 NTU	NTU

YUNGABURRA Reticulation Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	8	7	<1	2.9	0.65	1.28	<= 15.0 Pt/Co units	Pt/Co units
Calcium	8	7	0.89	5.5	3.25	3.22		mg/L
Chloride	8	7	10	14	13	12.56	<= 250.0 mg/L	mg/L
Electrical Conductance	8	7	90	110	94	95.78		µS/cm
Free Chlorine	8	7	<0.02	1.7	0.85	0.86	<= 5.0 mg/L	mg/L
ICPMS Aluminium	8	7	0.017	0.028	0.0215	0.02	<= 0.2 mg/L	mg/L
ICPMS Antimony	8	7	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	8	7	<0.0001	<0.0001	0	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	8	7	0.001	0.043	0.006	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	8	7	<0.015	0.111	0.0365	0.05	<= 0.3 mg/L	mg/L
ICPMS Lead	8	7	<0.0005	0.029	0	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	8	7	0.0002	0.009	0.00155	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	8	7	<0.0005	<0.0005	0	0.00	<= 0.02 mg/L	mg/L
Magnesium	8	7	1.3	3.3	3.2	2.73		mg/L
pH	8	7	7.5	8	7.7	7.71	6.5 - 8.5	.
Salinity	8	7	0.047	0.054	0.04855	0.05		psu
Sodium	8	7	9.7	15	9.9	11.24	<= 180.0 mg/L	mg/L
Sulphate	8	7	<1	1.2	1.15	1.03	<= 250.0 mg/L	mg/L
Total Alkalinity	8	7	22	30	25	25.31		mg CaCO ₃ / L
Total Chlorine	8	7	0.02	1.9	0.995	0.97	<= 5.0 mg/L	mg/L
Total Dissolved Solids	8	7	56	66	61.5	61.25	<= 600 mg/L	mg/L
Total Hardness	8	7	7.6	27	21.5	19.37	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	8	7	<1	<1	0	0.58		mg/L
Turbidity	8	7	0.1	0.4	0.15	0.20	<= 5 NTU	NTU

*Missed sample due to the sample site not being operational from January 2022 until October 202.

A close-up photograph of a chrome faucet with water flowing out. The water is clear and bubbly, creating a dynamic texture. The background is a soft, out-of-focus blue.

APPENDIX A.2

Source Water Summary Statistics



ATHERTON Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	12	12	<1	<1	<1	0.04	<= 15.0 Pt/Co units	Pt/Co units
Calcium	12	12	10	15	12	12.30		mg/L
Chloride	12	12	9	15	11	11.53	<= 250.0 mg/L	mg/L
E coli	12	12	<1	<1	0	0.25	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	12	12	160	220	190	190.06		µS/cm
ICPMS Aluminium	12	12	<0.015	<0.015	<0.015	0.00	<= 0.2 mg/L	mg/L
ICPMS Antimony	12	12	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	12	12	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	12	12	0.001	0.014	0.008	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	12	12	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	12	12	<0.0005	0.0009	0.00025	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	12	12	0.0002	0.0003	0	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	12	12	0.0005	0.001	0.0005	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	12	12	47	59	52.5	52.88	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	12	12	8.9	13	9.4	9.82		mg/L
Mercury	12	12	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
pH	12	12	6.9	7.5	7.1	7.15	6.5 - 8.5	
Potassium	12	12	1.8	2.2	2.1	2.06		mg/L
Salinity	12	12	0.0808	0.107	0.0936	0.09		psu
SAR_CALC	12	12	0.47	0.66	0.595	0.57		Units
Sodium	12	12	8.8	13	12	11.11	<= 180.0 mg/L	mg/L
Sulphate	12	12	<1	<1	<1	0.70	<= 250.0 mg/L	mg/L
Total Alkalinity	12	12	63	97	73	75.49		mg CaCO3 / L
Total Dissolved Solids	12	12	140	160	140	146.37	<= 600 mg/L	mg/L
Total Hardness	12	12	62	91	69	71.08	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	12	12	<1	2	1.2	1.17		mg/L
Turbidity	12	12	0.1	0.2	0.1	0.07	<= 5 NTU	NTU

BELLVIEW Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	2	2	13	15	14	14.00	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	0.57	0.87	0.72	0.72		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	3.7	4.4	4.05	4.03	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Concentration/IMS/Microscopy	12	12	0	0	0	0.00		.
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Cryptosporidium % Recovery	11	11	10	72	39	38.18		%
Cryptosporidium Viability	12	12	0	0	0	0.00		.
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	240	260	250	250.00		CFU/100mL
Electrical Conductance	2	2	25	31	28	28.15		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.02	0.083	0.0515	0.05	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	<0.001	0.009	0.0045	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.143	0.418	0.2805	0.28	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.0007	0.00035	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0111	0.0284	0.01975	0.02	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	0.0013	0.00065	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	8.9	11	9.95	9.81	<= 80 mg/ L SiO2	mg/ L SiO2

BELLVIEW Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Magnesium	2	2	0.68	0.97	0.825	0.82		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Number of Infectious Foci	12	12	Not Detected			0.00		.
Number of oocysts tested	12	12	Not Detected			0.17		.
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	2	2	6.6	7.1	6.85	6.85	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	2	2	0.78	0.83	0.805	0.80		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.0195	0.0217	0.0206	0.02		psu
SAR_CALC	2	2	0.58	0.61	0.595	0.59		Units
Sodium	2	2	2.9	3.3	3.1	3.08	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	<1	<1	<1	0.87	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	4.8	7.7	6.25	6.26		mg CaCO3 / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	2	2	<10	29	14.5	18.75	<= 600 mg/L	mg/L
Total Hardness	2	2	4.2	6.2	5.2	5.20	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	2	2	<1	2.4	1.2	1.53		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	1.5	1.9	1.7	1.72	<= 5 NTU	NTU
Volume	12	12	10	10	10	10.00		L

CASSOWARY Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	2	2	15	20	17.5	17.41	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	0.83	1	0.915	0.92		mg/L
Carbofenthion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	4.5	5.2	4.85	4.86	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Concentration/IMS/Microscopy	12	12	0	0	0	0.00		.
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Cryptosporidium % Recovery	11	11	5	65	35	32.09		%
Cryptosporidium Viability	12	12	0	0	0	0.00		.
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	410	550	480	480.00		CFU/100mL
Electrical Conductance	2	2	36	36	36	35.70		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.085	0.122	0.1035	0.10	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	<0.001	<0.001	<0.001	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.423	0.654	0.5385	0.54	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.033	0.0472	0.0401	0.04	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	0.0006	0.0003	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	10	11	10.5	10.66	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	1	1.2	1.1	1.11		mg/L

CASSOWARY Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Number of Infectious Foci	12	12	Not Detected			0.00		.
Number of oocysts tested	12	12	Not Detected			0.00		.
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	2	2	6.4	7.3	6.85	6.84	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	2	2	0.62	0.68	0.65	0.65		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.0236	0.0236	0.0236	0.02		psu
SAR_CALC	2	2	0.58	0.58	0.58	0.58		Units
Sodium	2	2	3.3	3.6	3.45	3.47	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	<1	<1	<1	0.79	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	3	8.4	5.7	5.72		mg CaCO ₃ / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	2	2	20	34	27	26.75	<= 600 mg/L	mg/L
Total Hardness	2	2	6.2	7.4	6.8	6.81	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	1.7	2	1.85	1.83		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	2.3	4.2	3.25	3.26	<= 5 NTU	NTU
Volume	12	12	10	10	10	10.00		L

DAVIES ROAD Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	4	4	<1	48	13.5	19.02	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	4	4	1.4	21	10.8	10.81		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	4	4	7	8.2	7.85	7.75	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	4	4	<1	2200	380	740.00		CFU/100mL
Electrical Conductance	4	4	46	250	151	148.65		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	4	4	<0.015	0.247	0.046	0.09	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.001	0.008	0.001	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.03	1.4	0.4805	0.60	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	0.0053	0	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0128	0.0862	0.0414	0.05	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	0.0018	0.00055	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	4	4	8.4	35	21.85	21.80	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	4	4	1.5	10	5.65	5.77		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	4	4	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L

DAVIES ROAD Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	4	4	6.6	8.1	7.4	7.37	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	4	4	0.62	2.8	1.745	1.73		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	4	4	0.0279	0.121	0.0746	0.07		psu
SAR_CALC	4	4	0.66	0.83	0.75	0.75		Units
Sodium	4	4	4.7	18	11.6	11.44	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	4	4	1.1	5.1	2.45	2.76	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	4	4	8.4	120	65.5	64.32		mg CaCO3 / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	4	4	35	190	114.5	113.37	<= 600 mg/L	mg/L
Total Hardness	4	4	9.7	94	50.5	50.94	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	4	4	1.4	9.5	2.65	4.07		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	4	4	0.2	11	2.3	3.96	<= 5 NTU	NTU

HERBERTON Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Aphanocapsa (Cyan)	1	1	320	320	320	320.00		Cells/mL
Apparent Colour	2	2	29	33	31	30.65	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	0.26	0.29	0.275	0.28		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	7.3	11	9.15	9.04	<= 250.0 mg/L	mg/L
Chlorophyta	2	2	2100	6800	4450	4450.00		Cells/mL
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	30	30	15	15.50		CFU/100mL
Electrical Conductance	2	2	31	46	38.5	38.15		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnell)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.109	0.222	0.1655	0.17	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.003	0.002	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.229	0.265	0.247	0.25	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0047	0.0071	0.0059	0.01	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0005	0.0005	0.00025	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	9.1	11	10.05	9.88	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	0.57	0.7	0.635	0.63		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L

HERBERTON Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	2	2	6.7	7	6.85	6.83	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	2	2	1	1.2	1.1	1.14		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.0216	0.0277	0.02465	0.02		psu
SAR_CALC	2	2	1.3	1.5	1.4	1.42		Units
Sodium	2	2	5.2	6.7	5.95	5.92	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	1.2	1.3	1.25	1.23	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	3.3	6.2	4.75	4.74		mg CaCO ₃ / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Cyanophyta	1	1	320	320	320	320.00		Cells/mL
Total Dissolved Solids	2	2	25	40	32.5	32.50	<= 600 mg/L	mg/L
Total Hardness	2	2	3	3.6	3.3	3.30	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	2	2.7	2.35	2.33		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	2.9	2.9	2.9	2.92	<= 5 NTU	NTU

HIGH COUNTRY Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	<1	<1	0.28	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	0.47	7.2	3.835	3.83		mg/L
Chloride	2	2	4.9	6.8	5.85	5.89	<= 250.0 mg/L	mg/L
E coli	2	2	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	32	150	91	89.70		µS/cm
ICPMS Aluminium	2	2	0.017	0.049	0.033	0.03	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	<0.001	0.004	0.002	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.001	0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0003	0.0015	0.0009	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0016	0.0023	0.00195	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	6.3	80	43.15	43.11	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	0.54	5.1	2.82	2.84		mg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
pH	2	2	5.2	6.9	6.05	6.07	6.5 - 8.5	.
Potassium	2	2	0.17	3.3	1.735	1.76		mg/L
Salinity	2	2	0.0219	0.0731	0.0475	0.05		psu
SAR_CALC	2	2	0.9	1.1	1	0.99		Units
Sodium	2	2	3.8	15	9.4	9.62	<= 180.0 mg/L	mg/L
Sulphate	2	2	2.5	3.7	3.1	3.11	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	<1.5	62	31	31.61		mg CaCO3 / L
Total Dissolved Solids	2	2	13	150	81.5	81.02	<= 600 mg/L	mg/L
Total Hardness	2	2	3.4	39	21.2	21.19	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	2	2	<1	<1	<1	0.03		mg/L
Turbidity	2	2	<0.1	0.2	0.1	0.12	<= 5 NTU	NTU

MALANDA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	2	9	<1	94	1.9	16.64	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	9	1.8	24	8.6	10.93		mg/L
Carbofenthion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	10	10	6.7	8.1	7.5	7.45	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	10	10	<1	4800	0	589.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	10	10	48	270	180	163.69		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	10	10	<0.015	0.452	0	0.07	<= 0.2 mg/L	mg/L
ICPMS Antimony	10	10	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	10	10	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	10	10	0.001	0.002	0.001	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	10	10	<0.015	2.17	0.145	0.51	<= 0.3 mg/L	mg/L
ICPMS Lead	10	10	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	10	10	0.0023	0.119	0.0385	0.04	<= 0.1 mg/L	mg/L
ICPMS Nickel	10	10	<0.0005	0.0025	0.0012	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	10	10	11	78	42	41.91	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	10	10	1.8	11	7.4	6.09		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	10	10	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L

MALANDA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	10	10	6.6	7.8	7.2	7.17	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	10	10	0.61	2.8	2.4	1.82		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	10	10	0.0289	0.129	0.0864	0.08		psu
SAR_CALC	10	10	0.56	1.2	0.89	0.84		Units
Sodium	10	10	4.4	23	16	14.29	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	10	10	<1	4.7	1.8	2.31	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	10	10	11	130	76	72.95		mg CaCO3 / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	10	10	41	230	150	131.77	<= 600 mg/L	mg/L
Total Hardness	10	10	12	91	53	52.21	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	10	10	<1	10	1.4	2.58		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	10	10	0.1	24	0.4	4.01	<= 5 NTU	NTU

MILLAA MILLAA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	2	2	15	43	29	28.91	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	2.1	2.2	2.15	2.15		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	5.3	6.1	5.7	5.73	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	500	3500	2000	2000.00		CFU/100mL
Electrical Conductance	2	2	45	51	48	47.85		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.275	0.724	0.4995	0.50	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.001	0.0005	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.555	1.08	0.8175	0.82	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0295	0.0456	0.03755	0.04	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.001	0.0022	0.0016	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	12	13	12.5	12.70	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	2	2.2	2.1	2.12		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L

MILLAA MILLAA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	2	2	7.2	7.4	7.3	7.33	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	2	2	0.6	0.66	0.63	0.63		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.0273	0.0301	0.0287	0.03		psu
SAR_CALC	2	2	0.4	0.43	0.415	0.42		Units
Sodium	2	2	3.4	3.8	3.6	3.60	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	<1	1.3	0.65	1.11	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	14	16	15	14.85		mg CaCO3 / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	2	2	41	64	52.5	52.11	<= 600 mg/L	mg/L
Total Hardness	2	2	13	15	14	14.02	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	2	2	8	23	15.5	15.52		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	2.8	11	6.9	7.02	<= 5 NTU	NTU

MILLSTREAM Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	2	2	18	82	50	49.81	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	0.99	1.7	1.345	1.36		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	6	6.8	6.4	6.43	<= 250.0 mg/L	mg/L
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Concentration/IMS/Microscopy	12	12			0	0.00		.
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Cryptosporidium % Recovery	11	11	18	68	43	41.36		%
Cryptosporidium Viability	12	12	0.00	0.00	0.00	0.00		.
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	23	830	426.5	426.50		CFU/100mL
Electrical Conductance	2	2	39	51	45	44.80		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.061	0.71	0.3855	0.39	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.004	0.0025	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.436	1.41	0.923	0.92	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.0007	0.00035	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0133	0.0336	0.02345	0.02	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	0.002	0.001	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	2	2	13	13	13	13.14	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	1.1	1.8	1.45	1.46		mg/L

MILLSTREAM Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
Number of Infectious Foci	12	12	Not Detected			0.00		.
Number of oocysts tested	12	12	Not Detected			0.00		.
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	<0.5	<0.5	0.00		µg/L
pH	2	2	6.9	7.5	7.2	7.21	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	2	2	1.1	1.1	1.1	1.08		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.025	0.0298	0.0274	0.03		psu
SAR_CALC	2	2	0.63	0.75	0.69	0.69		Units
Sodium	2	2	4.5	5	4.75	4.74	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	1.1	1.2	1.15	1.15	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	7.6	14	10.8	10.63		mg CaCO ₃ / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	2	2	39	42	40.5	40.50	<= 600 mg/L	mg/L
Total Hardness	2	2	7	12	9.5	9.33	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	4.4	2.2	2.37		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	1.9	19	10.45	10.33	<= 5 NTU	NTU
Volume	12	12	10	10	10	10.00		L

MOUNT GARNET & TABO Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	4	4	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	4	4	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	4	4	21	70	46.5	45.73	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	4	4	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	4	4	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	4	4	1.3	2.5	1.95	1.90		mg/L
Carbofenothion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	4	4	4.2	9.6	6.85	6.86	<= 250.0 mg/L	mg/L
Chlorpyrifos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	4	4	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
delta-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	4	4	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	4	4	<0.05	<0.05	<0.05	0.00		µg/L
E coli	4	4	16	52	21.5	24.50		CFU/100mL
Electrical Conductance	4	4	44	68	55.5	55.60		µS/cm
Endosulfan (sum)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	4	4	<0.010	<0.010	<0.010	0.00		µg/L
EPN	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	4	4	<10	<10	<10	0.00		µg/L
Fenitrothion	4	4	<2	<2	<2	0.00		µg/L
Fensulfothion	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	4	4	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	4	4	<10	<10	<10	0.00		µg/L
gamma-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	4	4	0.027	0.724	0.297	0.34	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.001	0.005	0.0025	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.321	1.44	0.696	0.79	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	0.0005	0.0039	0.00095	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0167	0.0475	0.04255	0.04	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	0.001	0.0007	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	4	4	9.4	18	15	14.24	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	4	4	0.98	2.3	1.5	1.60		mg/L
Malathion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	4	4	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	4	4	<0.1	<0.1	<0.1	0.00		µg/L

MOUNT GARNET & TABO Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Methoxychlor	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	4	4	<1.0	<1.0	<1.0	0.00		µg/L
Omethoate	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	4	4	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	4	4	<0.5	<0.5	<0.5	0.00		µg/L
pH	4	4	6.9	7.4	7.15	7.15	6.5 - 8.5 .	.
Phorate	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	4	4	1.3	2.2	1.5	1.64		mg/L
Profenofos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	4	4	0.027	0.0371	0.03195	0.03		psu
SAR_CALC	4	4	0.76	0.86	0.84	0.82		Units
Sodium	4	4	5.3	7.2	6.2	6.24	<= 180.0 mg/L	mg/L
Sulfotep	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	4	4	<1	1.2	1.1	1.08	<= 250.0 mg/L	mg/L
Sulprofos	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	4	4	13	18	15.5	15.56		mg CaCO3 / L
Total Chlordane (sum)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	4	4	43	50	49	47.63	<= 600 mg/L	mg/L
Total Hardness	4	4	7.4	16	10.9	11.27	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	4	4	1.7	11	3.75	5.08		mg/L
trans-Chlordane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	4	4	2	16	9.75	9.25	<= 5 NTU	NTU

RAVENSHOE Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	4	4	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	4	4	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Apparent Colour	4	4	9.7	93	24.5	38.12	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	4	4	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	4	4	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	4	4	1.3	1.8	1.4	1.46		mg/L
Carbofenothion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	4	4	5.3	6.8	5.6	5.82	<= 250.0 mg/L	mg/L
Chlorpyrifos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	4	4	<0.2	<0.2	<0.2	0.00		µg/L
cis-Chlordane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Concentration/IMS/Microscopy	12	12			0	0.00		.
Coumaphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Cryptosporidium % Recovery	11	11	9	64	47	40.73		%
Cryptosporidium Viability	12	12			0	0.00		.
delta-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Diazinon	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	4	4	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	4	4	<0.05	<0.05	<0.05	0.00		µg/L
E coli	4	4	86	350	133.5	175.75		CFU/100mL
Electrical Conductance	4	4	38	44	43	41.85		µS/cm
Endosulfan (sum)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	4	4	<0.010	<0.010	<0.010	0.00		µg/L
EPN	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	4	4	<10	<10	<10	0.00		µg/L
Fenitrothion	4	4	<2	<2	<2	0.00		µg/L
Fensulfothion	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	4	4	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	4	4	<10	<10	<10	0.00		µg/L
gamma-BHC	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	4	4	0.044	0.748	0.1615	0.28	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	<0.001	<0.001	0	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.277	1.57	0.6645	0.79	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0147	0.0829	0.02195	0.04	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	0.0012	0	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	4	4	11	16	12	12.70	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	4	4	0.97	1.6	1.35	1.33		mg/L

RAVENSHOE Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Malathion	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	4	4	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	4	4	<1.0	<1.0	<1.0	0.00		µg/L
Number of Infectious Foci	12	12	<1	<1	<1	0.00		.
Number of oocysts tested	12	12	<1	<1	<1	0.00		.
Omethoate	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	4	4	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	4	4	<0.5	<0.5	<0.5	0.00		µg/L
pH	4	4	6.1	7.4	7.1	6.96	6.5 - 8.5 .	.
Phorate	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Potassium	4	4	0.74	1	0.85	0.87		mg/L
Profenofos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	4	4	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	4	4	0.0246	0.027	0.02655	0.03		psu
SAR_CALC	4	4	0.53	0.75	0.64	0.64		Units
Sodium	4	4	3.9	5	4.35	4.42	<= 180.0 mg/L	mg/L
Sulfotep	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	4	4	<1	<1	0	0.99	<= 250.0 mg/L	mg/L
Sulprofos	4	4	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	4	4	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	4	4	8.6	11	10	10.08		mg CaCO ₃ / L
Total Chlordane (sum)	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Total Dissolved Solids	4	4	32	50	36.5	39.00	<= 600 mg/L	mg/L
Total Hardness	4	4	8.5	10	8.8	9.11	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	4	4	<1	3.6	0.6	1.37		mg/L
trans-Chlordane	4	4	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	4	4	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	4	4	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	4	4	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	4	4	1	22	3.45	7.43	<= 5 NTU	NTU
Volume	12	12	10	10	10	10.00		L

TINAROO PARK Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	<1	45	5	16.77	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	0.65	0.86	0.81	0.77		mg/L
Chloride	4	4	6.8	7.4	7	7.07	<= 250.0 mg/L	mg/L
E coli	4	4	<1	>100	0	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	4	4	46	48	47	46.93		µS/cm
ICPMS Aluminium	4	4	<0.015	0.039	0.035	0.03	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	0	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.006	0.018	0.011	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	0.019	1.55	1.05	0.87	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	0.001	0.0018	0.0015	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	0.0013	0.0351	0.0048	0.01	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	0.0009	0.0013	0.0011	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	4	4	19	24	19	20.64	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	4	4	1.3	1.5	1.3	1.35		mg/L
Mercury	4	4	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
pH	4	4	5.9	5.9	5.9	5.92	6.5 - 8.5	.
Potassium	4	4	0.91	1.1	0.95	0.97		mg/L
Salinity	4	4	0.0279	0.0286	0.0284	0.03		psu
SAR_CALC	4	4	0.84	0.92	0.92	0.89		Units
Sodium	4	4	5.5	5.7	5.6	5.60	<= 180.0 mg/L	mg/L
Sulphate	4	4	<1	<1	<1	0.83	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	8.7	9.9	8.9	9.17		mg CaCO3 / L
Total Dissolved Solids	4	4	42	50	44	45.67	<= 600 mg/L	mg/L
Total Hardness	4	4	7	8.3	7.4	7.56	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	4	4	<1	5.5	4.8	3.60		mg/L
True Colour	4	4	<1	<1	<1	0.83	<= 15 Pt/Co units	Pt/Co units
Turbidity	4	4	0.2	26	1.6	9.26	<= 5 NTU	NTU

WALKAMIN Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	4	4	<1	<1	<1	0.02	<= 15.0 Pt/Co units	Pt/Co units
Calcium	4	4	11	11	11	11.40		mg/L
Chloride	4	4	21	24	21	22.08	<= 250.0 mg/L	mg/L
E coli	4	4	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	4	4	250	260	250	254.33		µS/cm
ICPMS Aluminium	4	4	<0.015	<0.015	<0.015	0.00	<= 0.2 mg/L	mg/L
ICPMS Antimony	4	4	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	4	4	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	4	4	0.017	0.062	0.019	0.03	<= 1.0 mg/L	mg/L
ICPMS Iron	4	4	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	4	4	0.0013	0.0038	0.0016	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	4	4	<0.0002	<0.0002	<0.0002	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	4	4	<0.0005	0.0006	0	0.00	<= 0.02 mg/L	mg/L
ICPOES Silicon	4	4	75	76	75	75.52	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	4	4	14	14	14	14.09		mg/L
Mercury	4	4	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
pH	4	4	6.7	6.8	6.8	6.77	6.5 - 8.5 .	.
Potassium	4	4	2.2	2.2	2.2	2.17		mg/L
Salinity	4	4	0.121	0.126	0.122	0.12		psu
SAR_CALC	4	4	0.83	0.96	0.86	0.89		Units
Sodium	4	4	18	21	18	18.92	<= 180.0 mg/L	mg/L
Sulphate	4	4	1.2	1.4	1.2	1.26	<= 250.0 mg/L	mg/L
Total Alkalinity	4	4	91	94	92	92.16		mg CaCO3 / L
Total Dissolved Solids	4	4	200	210	200	205.08	<= 600 mg/L	mg/L
Total Hardness	4	4	85	85	85	85.12	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	4	4	<1	<1	<1	0.67		mg/L
Turbidity	4	4	0.1	0.1	0.1	0.07	<= 5 NTU	NTU
Apparent Colour	4	4	<1	<1	<1	0.02	<= 15.0 Pt/Co units	Pt/Co units

YUNGABURRA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
4.4`-DDD	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDE	2	2	<0.010	<0.010	<0.010	0.00		µg/L
4.4`-DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Acephate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Aldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
alpha-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Aphanocapsa (Cyan)	1	1	2400	2400	2400	2400.00		Cells/mL
Apparent Colour	2	2	1.9	60	30.95	31.08	<= 15.0 Pt/Co units	Pt/Co units
Azinphos-ethyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Azinphos-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Bensulide	2	2	<0.1	<0.1	<0.1	0.00		µg/L
beta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
beta-Endosulfan	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Bromophos-ethyl	2	2	<0.10	<0.10	<0.10	0.00		µg/L
Calcium	2	2	2.4	2.7	2.55	2.57		mg/L
Carbofenothion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorfenvinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chloride	2	2	7.3	13	10.15	10.20	<= 250.0 mg/L	mg/L
Chlorophyta	2	2	10	22000	11005	11005.00		Cells/mL
Chlorpyrifos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Chlorpyrifos-methyl	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Chroococcus (Cyanophyta)	1	1	200	200	200	200.00		Cells/mL
cis-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Coumaphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Cyanogranis (Cyanophyta)	1	1	2800	2800	2800	2800.00		Cells/mL
delta-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Demeton-O	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-O & Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Demeton-S-methyl	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Diatoms (Bacillariophyta)	1	1	1600	1600	1600	1600.00		Cells/mL
Diazinon	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Dichlorvos	2	2	<0.20	<0.20	<0.20	0.00		µg/L
Dieldrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Dimethoate	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Disulfoton	2	2	<0.05	<0.05	<0.05	0.00		µg/L
E coli	2	2	<1	180	90	90.00		CFU/100mL
Electrical Conductance	2	2	75	89	82	81.60		µS/cm
Endosulfan (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endosulfan sulfate	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin aldehyde	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Endrin ketone	2	2	<0.010	<0.010	<0.010	0.00		µg/L
EPN	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Ethion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Ethoprophos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenamiphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenchlorphos (Ronnel)	2	2	<10	<10	<10	0.00		µg/L
Fenitrothion	2	2	<2	<2	<2	0.00		µg/L
Fensulfothion	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Fenthion	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Formothion	2	2	<20	<20	<20	0.00		µg/L
Fosetyl Aluminium	2	2	<10	<10	<10	0.00		µg/L
gamma-BHC	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Heptachlor	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Heptachlor epoxide	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Hexachlorobenzene (HCB)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
ICPMS Aluminium	2	2	0.016	0.355	0.1855	0.19	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.002	0.005	0.0035	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	1.09	0.545	0.55	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.0008	0.0004	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0002	0.092	0.0461	0.05	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	0.0019	0.00095	0.00	<= 0.02 mg/L	mg/L

YUNGABURRA Source Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
ICPOES Silicon	2	2	13	13	13	12.83	<= 80 mg/ L SiO2	mg/ L SiO2
Magnesium	2	2	3.1	3.3	3.2	3.22		mg/L
Malathion	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Mercury	2	2	<0.06	<0.06	<0.06	0.00	<= 1.0 µg/L	µg/L
Methidathion	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Methoxychlor	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Mevinphos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Monocrotophos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Naftalofos	2	2	<1.0	<1.0	<1.0	0.00		µg/L
No Cyanophyta Detected	1	1			ND	0.00		Cells/mL
Omethoate	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Oxychlorane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Parathion	2	2	<0.2	<0.2	<0.2	0.00		µg/L
Parathion-methyl	2	2	<0.5	4.6	2.3	2.30		µg/L
pH	2	2	7.1	7.8	7.45	7.43	6.5 - 8.5	.
Phorate	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pirimiphos-ethyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Pirimiphos-methyl	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Planktolynbya sp	1	1	2100	2100	2100	2100.00		Cells/mL
Potassium	2	2	1.5	1.7	1.6	1.60		mg/L
Profenofos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Prothiofos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Pyrazophos	2	2	<0.1	<0.1	<0.1	0.00		µg/L
Salinity	2	2	0.0402	0.0463	0.04325	0.04		psu
SAR_CALC	2	2	0.63	0.99	0.81	0.81		Units
Sodium	2	2	6.6	9.9	8.25	8.25	<= 180.0 mg/L	mg/L
Sulfotep	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Sulphate	2	2	1.1	1.2	1.15	1.19	<= 250.0 mg/L	mg/L
Sulprofos	2	2	<0.05	<0.05	<0.05	0.00		µg/L
Sum of DDD + DDE + DDT	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Temephos	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Terbufos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Tetrachlorvinphos	2	2	<0.01	<0.01	<0.01	0.00		µg/L
Thiometon	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Total Alkalinity	2	2	24	24	24	23.87		mg CaCO3 / L
Total Chlordane (sum)	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Total Cyanophyta	1	1	7500	7500	7500	7500.00		Cells/mL
Total Dissolved Solids	2	2	56	57	56.5	56.25	<= 600 mg/L	mg/L
Total Hardness	2	2	19	20	19.5	19.54	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Potentially Toxic Cyanophyta	1	1			ND	0.00		Cells/mL
Total Suspended Solids	2	2	1.5	20	10.75	10.75		mg/L
trans-Chlordane	2	2	<0.010	<0.010	<0.010	0.00		µg/L
Triazophos	2	2	<0.005	<0.005	<0.005	0.00		µg/L
Trichlorfon	2	2	<0.02	<0.02	<0.02	0.00		µg/L
Trichloronate	2	2	<0.5	<0.5	<0.5	0.00		µg/L
Turbidity	2	2	0.3	14	7.15	7.22	<= 5 NTU	NTU

A close-up photograph of a chrome faucet with water flowing out. The water is clear and bubbly. The background is a soft, out-of-focus blue. A blue and green diagonal graphic element is in the bottom left corner.

APPENDIX A.3

Finished Water Summary Statistics



DAVIES ROAD Finished Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
E coli	12	12	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL

HERBERTON Finished Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL

**E.coli sampling for February 2023 missed*

MALANDA Finished Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
E coli	12	11	<1	<1	<1	0	< 1.0 CFU/100mL	CFU/100mL

**E.coli sampling for February 2023 missed*

MILLAA MILLA Finished Water

Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	3	5	4	4.01	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	2.2	2.3	2.25	2.24		mg/L
Chloride	2	2	9.4	9.6	9.5	9.51	<= 250.0 mg/L	mg/L
E coli	12	12	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	62	63	62.5	62.65		µS/cm
Free Chlorine	2	2	2	2.2	2.1	2.10	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	0.224	0.264	0.244	0.24	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.001	0.001	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.055	0.074	0.0645	0.06	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0009	0.0015	0.0012	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	2	2.1	2.05	2.05		mg/L
pH	2	2	7.4	7.5	7.45	7.49	6.5 - 8.5 .	.
Salinity	2	2	0.0347	0.0353	0.035	0.03		psu
Sodium	2	2	6.6	6.7	6.65	6.65	<= 180.0 mg/L	mg/L
Sulphate	2	2	<1	1.1	0.55	1.02	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	14	16	15	15.19		mg CaCO3 / L
Total Chlorine	2	2	2.1	2.3	2.2	2.20	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	44	65	54.5	54.50	<= 600 mg/L	mg/L
Total Hardness	2	2	14	14	14	14.06	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	2	2	1.6	3.2	2.4	2.40		mg/L
Turbidity	2	3	0.4	1.1	0.6	0.71	<= 5 NTU	NTU

MILLAA MILLA Finished Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	2.6	1.3	1.74	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	2.1	2.8	2.45	2.41		mg/L
Chloride	2	2	12	13	12.5	12.62	<= 250.0 mg/L	mg/L
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	77	82	79.5	79.45		µS/cm
Free Chlorine	2	2	0.74	1.4	1.07	1.06	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.002	0.027	0.0145	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.035	0.043	0.039	0.04	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.0006	0.0003	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.001	0.0032	0.0021	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	1.7	2.2	1.95	1.95		mg/L
pH	2	2	7.1	7.2	7.15	7.15	6.5 - 8.5	.
Salinity	2	2	0.0412	0.0434	0.0423	0.04		psu
Sodium	2	2	9.8	10	9.9	10.14	<= 180.0 mg/L	mg/L
Sulphate	2	2	1	1.1	1.05	1.04	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	17	20	18.5	18.54		mg CaCO3 / L
Total Chlorine	2	2	0.81	1.4	1.105	1.12	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	56	71	63.5	63.28	<= 600 mg/L	mg/L
Total Hardness	2	2	12	16	14	14.15	<= 200.0 mg CaCO3 / L	mg CaCO3 / L
Total Suspended Solids	2	2	<1	1.2	0.6	0.73		mg/L
Turbidity	2	2	0.1	0.1	0.05	0.05	<= 5 NTU	NTU

*E.coli sampling for February 2023 missed

YUNGABURRA Finished Water

Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
E coli	12	12	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL

A close-up photograph of a chrome faucet with water flowing out. The water is clear and bubbly. The background is a soft, out-of-focus blue. A diagonal green line separates the top half from a solid blue bottom half.

APPENDIX A.4

Storage Water Summary Statistics



ATHERTON Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	<1	<1	0.46	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	10	10	10	10.15		mg/L
Chloride	2	2	13	15	14	13.70	<= 250.0 mg/L	mg/L
E coli	12	12	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	170	180	175	174.15		µS/cm
Free Chlorine	2	2	1.2	2	1.6	1.56	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	<0.015	<0.015	0.00	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.009	0.013	0.011	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	<0.0002	<0.0002	<0.0002	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0005	0.0005	0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	8.8	9.1	8.95	8.94		mg/L
pH	2	2	7.3	7.4	7.35	7.32	6.5 - 8.5 .	.
Salinity	2	2	0.0841	0.0862	0.08515	0.09		psu
Sodium	2	2	10	11	10.5	10.61	<= 180.0 mg/L	mg/L
Sulphate	2	2	<1	<1	<1	0.74	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	66	66	66	66.05		mg CaCO ₃ / L
Total Chlorine	2	2	1.2	2	1.6	1.60	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	140	140	140	139.00	<= 600 mg/L	mg/L
Total Hardness	2	2	61	62	61.5	61.83	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	<1	<1	0.60		mg/L
Turbidity	2	2	0.1	0.1	0.1	0.09	<= 5 NTU	NTU

BELLVIEW Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	6.7	7.9	7.3	7.30	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	0.85	1.2	1.025	1.00		mg/L
Chloride	2	2	9.3	10	9.65	9.73	<= 250.0 mg/L	mg/L
E coli	6	5	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	48	49	48.5	48.35		µS/cm
Free Chlorine	2	2	1.8	2.2	2	1.98	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	0.045	0.051	0.048	0.05	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.001	0.001	0.001	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.206	0.323	0.2645	0.26	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0014	0.0014	0.0014	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	0.59	1	0.795	0.81		mg/L
pH	2	2	6.9	7.2	7.05	7.07	6.5 - 8.5 .	.
Salinity	2	2	0.0286	0.0291	0.02885	0.03		psu
Sodium	2	2	6.9	7.1	7	7.03	<= 180.0 mg/L	mg/L
Sulphate	2	2	1	1	0.5	0.94	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	6.2	10	8.1	8.31		mg CaCO ₃ / L
Total Chlorine	2	2	1.8	2.3	2.05	2.05	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	41	53	47	46.86	<= 600 mg/L	mg/L
Total Hardness	2	2	4.6	7.1	5.85	5.83	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	<1	<1	0.13		mg/L

*E.coli sampling for February 2023 missed

CASSOWARY Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	11	15	13	12.89	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	1.2	2.1	1.65	1.65		mg/L
Chloride	2	2	11	11	11	11.16	<= 250.0 mg/L	mg/L
E coli	6	5	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	58	68	63	63.30		µS/cm
Free Chlorine	2	2	1.9	2.4	2.15	2.15	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	0.07	0.075	0.0725	0.07	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.005	0.006	0.0055	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.358	0.466	0.412	0.41	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0136	0.0206	0.0171	0.02	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	0.95	1.2	1.075	1.09		mg/L
pH	2	2	7.2	7.4	7.3	7.26	6.5 - 8.5	.
Salinity	2	2	0.0331	0.0374	0.03525	0.04		psu
Sodium	2	2	8.6	9.7	9.15	9.15	<= 180.0 mg/L	mg/L
Sulphate	2	2	<1	<1	<1	0.90	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	9.2	16	12.6	12.64		mg CaCO ₃ / L
Total Chlorine	2	2	2.1	2.5	2.3	2.30	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	56	63	59.5	59.13	<= 600 mg/L	mg/L
Total Hardness	2	2	6.9	10	8.45	8.55	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	1.2	0.6	0.85		mg/L
Turbidity	2	2	2	2.3	2.15	2.12	<= 5 NTU	NTU

* E.coli sampling for February 2023 missed

DAVIES ROAD Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	<1	<1	0.64	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	16	18	17	16.90		mg/L
Chloride	2	2	12	12	12	11.72	<= 250.0 mg/L	mg/L
Electrical Conductance	2	2	220	240	230	229.00		µS/cm
Free Chlorine	2	2	2.1	2.3	2.2	2.20	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	0.019	0.0095	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.003	0.005	0.004	0.00	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	<0.015	<0.015	<0.015	0.00	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0002	0.0002	0.0001	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	8.2	8.8	8.5	8.47		mg/L
pH	2	2	8	8.2	8.1	8.10	6.5 - 8.5 .	.
Salinity	2	2	0.107	0.115	0.111	0.11		psu
Sodium	2	2	18	19	18.5	18.56	<= 180.0 mg/L	mg/L
Sulphate	2	2	3.4	4.2	3.8	3.82	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	95	110	102.5	102.61		mg CaCO ₃ / L
Total Chlorine	2	2	2.2	2.3	2.25	2.25	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	150	160	155	156.97	<= 600 mg/L	mg/L
Total Hardness	2	2	74	81	77.5	77.45	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	1.6	0.8	1.20		mg/L
Turbidity	2	2	0.1	0.2	0.15	0.12	<= 5 NTU	NTU
Apparent Colour	2	2	<1	<1	<1	0.64	<= 15.0 Pt/Co units	Pt/Co units

MILLSTREAM Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	11	31	21	21.19	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	2.1	2.4	2.25	2.22		mg/L
Chloride	2	2	12	12	12	11.72	<= 250.0 mg/L	mg/L
E coli	12	11	<1	<1	<1	0.00	< 1.0 CFU/100mL	CFU/100mL
Electrical Conductance	2	2	72	76	74	73.90		µS/cm
Free Chlorine	2	2	1.1	1.5	1.3	1.33	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	0.052	0.295	0.1735	0.17	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.014	0.015	0.0145	0.01	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.401	0.83	0.6155	0.62	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	<0.0005	<0.0005	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.0053	0.0074	0.00635	0.01	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0005	0.0005	0.00025	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	2	2.1	2.05	2.05		mg/L
pH	2	2	7.4	7.5	7.45	7.48	6.5 - 8.5 .	.
Salinity	2	2	0.0392	0.0405	0.03985	0.04		psu
Sodium	2	2	8.8	9.4	9.1	9.09	<= 180.0 mg/L	mg/L
Sulphate	2	2	1.1	1.2	1.15	1.11	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	17	17	17	16.99		mg CaCO ₃ / L
Total Chlorine	2	2	1.2	1.6	1.4	1.42	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	56	85	70.5	70.12	<= 600 mg/L	mg/L
Total Hardness	2	2	14	14	14	14.06	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	1.6	0.8	1.18		mg/L

* E.coli sampling for February 2023 missed

TINAROO PARK Storage Water								
Result Name	No. of tests required	No. of tests taken	Minimum	Maximum	Median	Average	ADWG Value	Units
Apparent Colour	2	2	<1	1.2	0.6	0.83	<= 15.0 Pt/Co units	Pt/Co units
Calcium	2	2	0.81	0.88	0.845	0.85		mg/L
Chloride	2	2	9.9	10	9.95	10.18	<= 250.0 mg/L	mg/L
Electrical Conductance	2	2	87	87	87	87.00		µS/cm
Free Chlorine	2	2	1.7	2	1.85	1.86	<= 5.0 mg/L	mg/L
ICPMS Aluminium	2	2	<0.015	<0.015	<0.015	0.01	<= 0.2 mg/L	mg/L
ICPMS Antimony	2	2	<0.001	<0.001	<0.001	0.00	<= 0.003 mg/L	mg/L
ICPMS Cadmium	2	2	<0.0001	<0.0001	<0.0001	0.00	<= 0.002 mg/L	mg/L
ICPMS Copper	2	2	0.004	0.073	0.033	0.04	<= 1.0 mg/L	mg/L
ICPMS Iron	2	2	0.023	0.052	0.0375	0.04	<= 0.3 mg/L	mg/L
ICPMS Lead	2	2	<0.0005	0.0032	0.001	0.00	<= 0.01 mg/L	mg/L
ICPMS Manganese	2	2	0.001	0.0018	0.0014	0.00	<= 0.1 mg/L	mg/L
ICPMS Nickel	2	2	0.0009	0.001	0.00095	0.00	<= 0.02 mg/L	mg/L
Magnesium	2	2	1.3	1.3	1.3	1.30		mg/L
pH	2	2	6.5	6.6	6.55	6.55	6.5 - 8.5 .	.
Salinity	2	2	0.0454	0.0458	0.0456	0.05		psu
Sodium	2	2	15	16	15.5	15.45	<= 180.0 mg/L	mg/L
Sulphate	2	2	<1	<1	<1	0.79	<= 250.0 mg/L	mg/L
Total Alkalinity	2	2	25	27	26	26.07		mg CaCO ₃ / L
Total Chlorine	2	2	1.8	2	1.9	1.89	<= 5.0 mg/L	mg/L
Total Dissolved Solids	2	2	63	64	63.5	63.50	<= 600 mg/L	mg/L
Total Hardness	2	2	7.4	7.6	7.5	7.46	<= 200.0 mg CaCO ₃ / L	mg CaCO ₃ / L
Total Suspended Solids	2	2	<1	<1	0.5	0.50		mg/L
Turbidity	2	2	0.1	0.3	0.2	0.19	<= 5 NTU	NTU

APPENDIX B

E.coli Averages

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**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Atherton

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	47	59	47	47	58	35	39	43	52	42	42	41
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	577	588	610	589	611	570	573	582	576	573	569	552
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Bellview

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	4	6	2	4	5	5	3	3	5	5	5	8
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	54	57	54	54	55	54	52	50	51	52	53	55
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Cassowary

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	1	1	5	3	6	4	2	1	0	1	6	7
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	30	28	28	27	29	28	26	26	26	26	32	37
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Davies Road

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	13	16	10	13	16	13	16	10	16	13	16	13
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	155	158	152	152	155	155	158	158	161	162	165	165
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Herberton

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	13	17	10	11	16	14	10	12	16	14	15	12
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	161	169	164	164	168	166	163	161	161	163	165	160
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: High Country

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	5	6	4	4	6	1	4	4	6	5	5	3
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	59	62	61	61	63	58	57	56	55	56	56	53
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Malanda

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	13	16	10	13	16	13	16	10	16	13	16	13
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	156	159	153	153	155	155	158	158	161	162	165	165
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Millaa Millaa

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	13	15	10	13	17	13	16	10	16	13	16	13
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	155	157	151	151	155	155	158	158	161	162	165	165
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Millstream North

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	1	1	6	3	6	3	0	0	0	1	7	12
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	25	23	24	23	25	23	23	23	23	23	30	40
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Millstream South

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	1	1	5	4	5	3	0	0	0	1	5	12
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	27	25	25	25	26	23	23	23	23	23	28	37
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Mt Garnet

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	14	17	11	11	17	14	11	12	17	14	15	12
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	167	175	171	170	175	172	169	167	167	169	170	165
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Ravenshoe

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	3	2	8	6	11	9	6	8	10	9	10	12
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	54	50	48	46	49	47	52	59	69	76	86	94
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Tinaroo Park

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	4	5	4	5	5	3	4	4	4	3	5	4
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	45	46	46	47	48	47	49	52	51	50	50	50
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Walkamin

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	4	5	4	4	5	3	4	4	5	4	4	4
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	48	49	48	48	49	48	49	50	50	51	51	50
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

**Escherichia coli health compliance:
Calculation of 12 month 'rolling' annual value**

Drinking water scheme: Yungaburra

Year	2022 to 2023											
Month	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected	21	25	20	22	26	16	21	21	21	16	26	21
No. of samples collected in which <i>E. coli</i> is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	281	281	271	267	268	259	267	281	271	265	260	256
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

CALCULATE PERCENTAGE USING A TWELVE (12) MONTH 'ROLLING' ANNUAL VALUE

The *Public Health Regulation 2005* (the regulation) requires that 98 per cent of samples taken in a 12 month period should contain no *E. Coli*. This requirement is referred to as the 'annual value' in Schedule 3A of the regulation.

This requirement comes into effect once you have 12 months data and should be assessed every month based on the previous 12 months data (so that it is a 'rolling' assessment).

APPENDIX C RMIP

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Item	Scheme	Scheme Component / Sub-component	Project Name	Risk Mitigated / To Be Mitigated	Description	Action(s)	Target date/s	Funding Source	Status	Reasoning for Extension (if applicable) & Comments	2023 Comment	Person responsible	Project Origin	Risk Assessment Item No.
1	All Schemes	Catchment	Preventative Measures Implementation	Water Quality	Implementation of the Plan - To educate and garner support from farmers to assist with minimising water quality impacts (animals and humans in catchment). Catchment mapping to assist in risk assessment reviews and sanitary assessments	TRC to undertake a investigation into catchment management practices, and the development of a strategy. Investigate septic system inspection requirements for properties under the relevant legislation Investigate the possibility of discussing water quality impacts with farmers and dairies Investigate inspection requirements for properties under the Planning Act and Plumbing and Drainage Act. Develop map layer to identify high risk activities for ease of review and update periodically	84	TRC / DSDMIP	Started	Discussions have been undertaken with the relevant TRC sections; catchment management procedures are to be reviewed following Water Strategy. New target completion date: end of 2024		Lead I2:N14Compliance Advisor	Risk identified in the DWQMP review Risk Assessment - Catchment all Schemes	Catchment CMT1, CMT2, CMT3
2	All Schemes	Disinfection	Ct Validation	Disinfection validation	Conduct Ct Validations for all schemes	Schemes will be prioritised according to treatment and disinfection. Surface water disinfection. Phase 2 to commence following assessing all remaining schemes.	2024	TRC	Started	Complete for SW C12 only schemes. TRC have began installing flow meters in other schemes to permit the roll-out across the region. New target completion date: 2024		Lead Compliance Advisor Treatment Coordinator	DWQ Third Party Audit Report	
3	All SW Disinfection only Schemes	Disinfection	DBPs Investigation	DBPs	Disinfection by product to be investigated	The risk from DBPs in unfiltered chlorinated surface water schemes will be assessed and quantified through testing	2024/25	TRC	Not Started	Budget will be requested for next financial year	Treatment Team to check testing program to advise if we already have the adequate samples to report on this requirement - If required an RFQ to be developed in January 2024 to seek consultant to undergo assessment	Operations Engineer Lead Compliance Advisor	DWQ Third Party Audit Report	
4	All Disinfection only Schemes	Disinfection	Chlorate Investigation	Chlorate	Managing chlorate levels in drinking water	The risk from chlorate in chlorinated water schemes will be assessed and quantified through testing	2024/25	TRC	Not Started	Budget will be requested for next financial year	Treatment Team to check testing program to advise if we already have the adequate samples to report on this requirement - If required an RFQ to be developed in January 2024 to seek consultant to undergo assessment	Operations Engineer Lead Compliance Advisor	Risk assessment	
5	All groundwater schemes	Raw Water	Groundwater connectivity	Water Quality	Understanding the source of potential contamination or lack thereof	Depth to groundwater and its connectivity to surface water needs to be investigated, especially to inform Health Base Targets for groundwater sources.	2025	TRC	Not Started		TRC carries out monitoring of e.coli and has an assessment of the catchments in place - Investigation into removing risk underway	Lead Compliance Advisor	Risk assessment and Health Based Target methodology	
6	All schemes	Whole System	Cyber Security	Water Quality	The SCADA Strategy and the Cyber Security Strategy will assist in managing risks from a cyber attack	Develop a Cyber Security Management Plan and incorporate recommended improvement actions that impact of water quality into this RMIP	2024/25	TRC	Started	Implementation of the SCADA Strategy has commenced - incorporates Cyber Security controls.	SCADA Strategy Stage 1 will be released to market shortly and will set the scene for next steps towards cyber security management.	Manager WW Operations Engineer	Risk assessment	INT12
7	Tinaroo Park	Whole System	VSD / Booster Pumps	Pressures	Investigate the pressure and flows in the Tinaroo Park area	If required, install VSD and booster pumps to ensure sufficient flow and pressure to meet service levels	2024/25	TRC	Started	Project continuing - Budget to be requested for next financial year	Pressure and flows tested in January 2022 - Further investigations required	Reticulation Coordinator	Reticulation Team	
8	All Schemes	Storage / Reticulation	Parts Management	Water Quality Public Health	Enhance TRCs storage and sanitisation processes for parts and fittings relating to water supply	Review, develop and implement processes. Engage with suppliers to determine possibility of increased level of service	2024	TRC	Started	Due to Covid related impacts on the industry and extensive capital programs undertaken by TRC . New Target date - 2024	Retic to work on better processes and team training	Reticulation Coordinator	Audit Action Plan	
10	All surface water intakes - SOUTHERN	Treatment	Verification and Operational Monitoring Program	Water Quality Public Health	Review and assess risks posed by Crypto oocysts in the surface water sources that are only treated with Chlorine to firm up decision on whether they need additional barriers	1. Review and assess risks posed by Crypto oocysts in the surface water sources that are only treated with Chlorine to firm up decision on whether they need additional barriers 2. Consider alternative and more appropriate ways to more preventatively assess and mitigate the risk other than the current monthly testing 3. Scope is to include TRC operational and verification monitoring programs as a whole to ensure compliance with guidelines and legislation as well as consistency with the Risk Assessment	2023/24	TRC	Not Started	3yrs of Crypto testing across raw water intakes - seek engagement to produce a report to cease testing	RFQ to be developed in January 2024 to seek consultant to undergo assessment	Lead Compliance Advisor	DWQMP Audit 2021	CMT5, CMT6
11	All Schemes	Storage / Reticulation	Equipment Storage	Water Quality Public Health	Consider storing all drinking water parts and fittings in such that they are protected from sunlight and from potential contamination		2024	TRC	Started		Project underway to progress storage improvements. TRC are hoping to bring steps to this project in 2023/24	Manager WW	DWQMP Audit 2021	
12	All Schemes	Treatment	Dosing Arrangements	Insufficient Disinfection	Consider installation of secondary pumps with automatic changeover at WTP and Critical Retic Sites.	Determine which sites do not have duty standby / secondary pumps	End 2024	TRC	Started		Being considered as part of the WOIP and Water Strategy. For the remainder of the sites, this is being considered as pump replacements occur	Coordinator of Treatment	DWQMP Audit 2021	
13	All Schemes	Treatment / Intake	Emergency Power	Water Quality	Review sites currently without Emergency Power (Generators), particularly those with limited redundancy and prioritise for emergency power supply. Consider funding options and the prioritisation of Atherton Water Supply Scheme.		2024/25	TRC	Started		This is currently underway. Further prioritisation is required to identify critical sites versus sites that have a level of redundancy, such as 3 days of reservoir storage available.	Operations Engineer		
14	All Schemes	Catchment	Level Monitoring Phase 2	Water Security	Installation and management of bore level monitors to ensure best practice of utilisation of ground waters and meet compliance with water licences	Undertake works to ensure bores have monitoring equipment installed and develop and implement processes to monitor the aquifer levels	2023/24	TRC	Started		Level sensors were installed in 2023/24 - Ongoing maintenance on works completed	Reticulation Coordinator	Water Strategy	
15	All Schemes	Documentation	DWQMP Review and Gap Analysis	Compliance	Update the review and gap analysis template to align with the new guideline for preparation, review and audit of DWQMP, once it has been endorsed by the Regulator and is no longer a draft	1. Update the template 2. conduct the gap analysis and identify any significant areas of chage 3. Deliver inhouse - or use external consultants and consider budgetary requirements	2023/24	TRC	Started			Lead Advisor Compliance	2022 DWQMP Review	
16	All Schemes	Documentation	Standby Equipment Supplier List	Water Quality	Update the Standby Equipment Supplier List		2022/23	TRC	Not Started		Reticulation team to commence progressing this lists	Coordinator Reticulation	Reticulation Team	
17	Schemes with Solar Powered controls	Telemetry	Solar Powered Battery Maintenance Checks	Water Quality Public Health	Review and establish additional steps in site maintenance to include check of solar battery power and back up	Review current maintenance checks and identify sites where solar power is utilised. Identify steps to ensure batteries at these sites are checked and including bore level sensors, rain trees, WRD Monitors etc Add to annual maintenance	2023/24	TRC	Not Started		Asset Register - to include solar panels and batteries Council to roll out maintenance program to ensure batteries on standby - SCADA Low battery alarms	Coordinator Reticulation	Bore Level Sensor & Flowmeter Project	
18	All Schemes	Water Quality	Intake Security and Maintenance Program	Water Quality Public Health	Infrastructure maintenance across all schemes, primarily focused on intake security - fencing, gates, bore casings etc.	Review current sites to determine priority listing of those that require new infrastructure (fencing) and follow with maintenance inspection program to determine sites that require upgrades to fencing etc	2023/24	TRC	Not Started		New item to address unacceptable risk identified within the Risk Assessment as per DWQMP	Coordinator Reticulation	Risk Assessment	Intake CMT1, CMT2, CMT3
20	Southern Schemes	Water Quality	Turbidity Events	Public Health	During high/prolonged rainfall events - TRC cannot divert supply in th Southern Schemes that are currently disinfection only.	Operation Testing to be maintained and chlorine residuals steady for duration of Turbidity Events. TRC to Follow Procedure PWW-0083 - Issue Community Alert. 1. Continue Business as Usual, TRC cannot lower this risk until a water treatment plant is online in the Southern Schemes (base Ravenshoe)	2022	TRC	Started		New item to address unacceptable risk identified within Risk Assessment as per DWQMP	Coordinator Reticulation Coordinator Treatment Lead Compliance Advisor	Risk Assessment	CMT20
21	Herberton, Yungaburra	Water Quality	Dam Water Quality	Water Quality	Regular inspections of Wild River Dam, verification monitoring in place to ensure Cyanobacteria risk low.	Observe for any changes in the catchment, maintenance and inspection programs weekly	2022	TRC	Started		New item to address unacceptable risk identified within Risk Assessment as per DWQMP	Coordinator Reticulation	Risk Assessment	CMT25
22	All Schemes	Water Quality	Trade Wastes - Dairy Farms	Water Quality Public Health	Investigate Trade Waste requirements for Dairy Farms in this scheme - identify any risks to catchment		2023/24	TRC	Not Started		New item to address unacceptable risk identified within Risk Assessment as per DWQMP	Lead Compliance Advisor	Risk Assessment	CMT5
23	Millstream	Water Quality	WWTP Release	Water Quality Public Health	Investigate Ravenshoe WWTP discharge being upstream of Millstream Intake	Review procedures and sampling programs to ensure WWTP release is not impacting Millstream North and South (intake downstream) supply	1905	TRC	Started	New Water Treatment plant will connect Millstream to Ravenshoe supply (North Cedar intake is upstream of the WWTP Discharge) Removing this risk to the Millstream Reticulation/Storage networks	New item to address unacceptable risk identified within Risk Assessment as per DWQMP. Ravenshoe WTP - construction underway - will remove this risk.	Lead Compliance Advisor	Risk Assessment	CMT6

APPENDIX D

Gap Analysis



1.1 Service Description

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Have any of the provider contact details changed?	X				
2	Do the scheme details still apply?	X				
3	Have there been changes in the communities serviced, population size, or the connections that apply to each scheme? Has the projected water demand (volume) changed?	X				Number of connections updated
4	Has there been any change in operators upstream or downstream?		X			
5	Is the design capacity sufficient for population projections?		X			Water Strategy works underway, details included in RMIP and overview is provided in the Plan

A = Not required/applicable

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1.1.1 3.6 Details of Infrastructure for providing the service

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Do the schematics of each scheme accurately reflect all the current components of each scheme, from catchment to consumer?			X		Updates were required to reflect changes to Yungaburra, Ravenshoe and Atherton WSS and minor changes across other scheme Appendix B - Reticulation Schematics - TC Version.pdf
2	Have any of the linkages between the major infrastructure elements changed and/or are they reflecting the current service?	X				
3	Has infrastructure ownership or operational responsibility changed for any component of the scheme?		X			
4	Have new water sources been used? (If so, does the hazard identification (3.7.2) and risk assessment (3.8) adequately address risks associated with the new source?)		X			
5	Do any of the source details—including names, characteristics, performance and infrastructure—require updating?	X				Minor Updates to sources for the Atherton WSS (removal of surface intake)
6	Has analysis of the operational and verification monitoring data identified changes in the source characteristics and performance?		X			

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
7	Have new treatment processes commenced, or original treatment processes been excluded?		X		
8	Have checks been undertaken on capacity to vary operations, such as variable depth of water intake and/or trigger of different treatment steps based on intake water quality?		X		
9	Have chemical records been reviewed to check planned treatment processes?	X			
10	Has operational monitoring data identified any poorly functioning treatment processes?		X		
11	Has the current loading or proportion of flow from each source changed?			X	Water Strategy Underway
12	Have monitoring and telemetry systems been checked and/or changed?	X			Reflected in RMIP, Infrastructure Details – SCADA Strategy
13	Has source water quality changed sufficiently to require alterations in treatment processes?		X		

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
14	Has the disinfection process changed, such as a change in disinfectant, additional disinfection points or target residuals?		X		
15	Have the records of chemical usage for disinfection processes indicated operational adjustments?		X		
16	Has the distribution system been extended or altered?	X			Carrington Road/Scrubby Creek residents are connected by main to Atherton WSS, Yungaburra Reservoir 1 taken offline
17	Have low pressure areas in the distribution and reticulation system changed?		X		
18	Has a reservoir undergone refurbishment?			X	Reservoir works continue to progress. Included in RMIP
19	Have there been changes in the key stakeholders involved in the management of drinking water quality?			X	Updated Table of Stakeholders involved in the ongoing risk assessments and management of water supplies
20	Have there been any problems with the treatment or disinfection processes that require changes to processes, operational procedures, and/or responsibility?		X		

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B = Minor Change Required

C = Major Change Required

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1.1.2 3.7.1 Information gathering water quality and catchment characteristics

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
1	Have there been changes to the source water quality and catchment characteristics?	X			
2	Has operational and verification monitoring and trend analysis identified changes in water quality – both source and output quality?	X			
3	Are there new industries or development that present additional water quality hazards?	X			
4	Have the arrangements for monitoring, transport arrangement for off-site analysis, or testing laboratory changed?	X			TRC continue to personally transport a significant portion of samples currently due to transport limitations and timeframes imposed on lifting BWN
5	Has the nature or frequency of any water quality complaints changed?	X			Decline in complaints – likely due to consistent media information releases and community engagement on Water Strategy
6	Has there been any occurrence of suspected illness following a customer complaint about water quality?	X			

1.1.3 3.7.2 Hazard Identification

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Have incident and excursion records identified changes in risks and hazards?		X			
2	Is there a need to develop new risk assessment and preventive measures, and add to the plan?		X			
3	Are disinfection residuals maintained throughout the distribution network?	X				
4	Have the personnel (position) responsible for hazard identification and risk assessment changed?			X		Changes updated
5	Are staff with knowledge of day to day operations included in the process of identifying emerging risks and hazards?	X				
6	Is there a need to amend the information about the key stakeholders?			X		
7	If multiple providers, have changes in upstream and downstream water quality been identified and/or notified?		X			

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1.1.4 3.8 Assessment of risks

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Has the system been upgraded or have there been changes in source water quality that require a review of the risk assessment?		X			
2	Is the risk assessment methodology still considered appropriate?	X				
3	Does water quality data indicate that the level of risk has changed for certain hazards?			X		Crypto detections to date are all non-infections, non-viable – TRC continue to sample in Ravenshoe, Cassowary, Bellview and Millstream Estates monthly
4	Have all identified hazards been added to the risk assessment tables?	X				
5	Have new risk management strategies been implemented, and require new assessment of residual risk?		X			

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Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
6	Have new risks from other providers' systems or changes in the catchment activities been identified?		X		
7	Are the risks related to incidents, excursions, and events included in the previously identified risks?		X		

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1.2 3.9.1 Risk management measures

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Have the existing risk management strategies achieved desired water quality outcomes?	X				
2	What improvement actions outlined in the plan have been implemented? For example, have staff undertaken identified training and skill development?			X		Training new staff, including reticulation and treatment officers
3	Have new procedures such as alarm settings or event-based chemical dosing been implemented?	X				
4	Has the effectiveness of any new risk management strategies or infrastructure upgrades been evaluated?			X		
5	Have procedural documents been reviewed and updated?	X				Procedures are considered living documents, as is the DWQMP – Updated annual to reflect any possible changes
6	Have there been any changes in regulations or legislation?		X			

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
7	Have there been organisational structure changes that may impact on risk management?		X		TRC undergoing Organisational Restructure – Interim Manager in place in Water & Waste Section

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1.3 3.9.2 Operation and maintenance procedures

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
1	Is there a need to create new operation and maintenance procedures?		X		TRC continue to review, implement and develop procedures as required
2	Do the procedural documents outline management of the current risks?	X			
3	Are staff using current versions of procedures?	X			
4	Have maintenance records been kept to confirm frequency specified in the plan?		X		SWIMLocal employed where possible. Paper based maintenance processes in place until SWIMLocal and new Property and Rating Asset Maintenance Database (roll out in process) can manage the added information
5	Are monitoring systems managed appropriately, such as alarm settings, improved telemetry, and calibration?	X			SCADA Strategy Stage 1 – TRC seeking funding and preparing to commence TRC have installed extra alarms at multiple sites – fully integrated into SCADA
6	Have chemical dosing and disinfection processes, including storage supply and application rates, been reviewed?				
7	Have all procedures and practices been reviewed to reflect current operations?	X			

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
8	Have training records been maintained?	X			
9	Is training appropriate to the system as it currently exists?	X			

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1.4 3.9.3 Management of incidents and emergencies

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
1	Is the process for managing drinking water incidents and emergencies still appropriate?	X			
2	Do internal and external communication process and protocols work effectively?	X			
3	Does the list of people to be contacted during emergencies require amending?			X	Reviewed annually
4	Have the emergency response procedures been implemented, and were there any issues with the response?	X		X	BCP
5	Is staff training for incidents and emergencies up to date?	X			
6	Is the process for managing drinking water incidents and emergencies understood by staff?	X			Senior Advisor Compliance has had information sessions with relevant staff. Lead Investigation Incident in 2022 was handled well with clear comms between staff and Regulators

1.4.1 3.9.4 Risk management improvement program

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Question No.	Review Question	Finding			Evidence/Comments	
		YES	NO			
			A	B		C
					N.B. Provide references to documentation where necessary	
1	Did the Risk Management Improvement Program outlined in the plan achieve the intended outcomes?	X				
2	Does the program require updating to manage risks effectively, including measures for newly identified risks?			X	Ongoing	
3	<u>Were measures in the program completed in the timeframe outlined?</u>			X		

1.4.2 3.9.5 Service-wide support information management

Question No.	Review Question	Finding			Evidence/Comments	
		YES	NO			
			A	B		C
					N.B. Provide references to documentation where necessary	
1	<u>Are the information management, record keeping and reporting processes being used appropriately?</u>	X				
2	Are current versions of documents being used?	X				

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
3	Are communication protocols working effectively?	X			

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1.4.3 3.10.1 Operational monitoring

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Are the range and frequency of parameters being tested appropriate?	X				
2	Are alarm settings still as defined in the plan?			X		
3	Are the established alert/critical limits, alarm settings and feedback controls actively applied and still appropriate?			X		
4	Have changes to the infrastructure resulted in a need to revise the monitoring program?			X		New sample sites due to changes in the reticulation networks for Yungaburra and Ravenshoe
5	Do critical personnel have sufficient knowledge of the responses required for excursions?	X				

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Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
6	Have records been maintained according to referenced procedures?		X		

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1.4.4 3.10.2 Verification monitoring

Question No.	Review Question	Finding				Evidence/Comments
		YES	NO			
			A	B	C	N.B. Provide references to documentation where necessary
1	Has the monitoring program been reviewed for compliance and appropriateness (sample parameters, analytical procedure, frequency)?	X		X		
2	Have ADWG health guideline values changed for any parameters?			X		
3	Have changes to the infrastructure resulted in a need to revise the monitoring program?	X				
4	Has an analysis of the incident records indicated a review of the monitoring program?		X			
5	Have sampling methods, or the process for sampling, routine analysis and transportation changed?		X			
6	Have sampling locations been reviewed?	X				

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2022 Gap Analysis – Review of the Drinking Water Quality Management Plan

Question No.	Review Question	Finding			Evidence/Comments
		YES	NO		
			A	B	C
7	Has progressive analysis of monitoring trends been undertaken?	X			
8	Do the record keeping and data analysis procedures require updating?		X		SWIMLocal used for monitoring data
9	Have all incidents been reported as required and indicated actions implemented?	X			

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