



Drinking Water Service Annual Report

1 July 2024 – 30 June 2025

SPID: [557](#)

65 Rankin Street
PO Box 154
MAREEBA QLD 4880

This report has been prepared in accordance with the Drinking Water Quality Management Plan Report
Guidance Note.

Glossary of terms

ADWG 2011	Australian Drinking Water Guidelines (2011) Ver 3.8. Published by the National Health and Medical Research Council of Australia
<i>E. coli</i>	<i>Escherichia coli</i> , a bacterium which is considered to indicate the presence of faecal contamination and therefore potential health risk
HACCP	Hazard Analysis and Critical Control Points certification for protecting drinking water quality
mg/L	Milligrams per litre
MSC	Mareeba Shire Council
NTU	Nephelometric Turbidity Units
MPN/100mL	Most probable number per 100 millilitres
CFU/100mL	Colony forming units per 100 millilitres
<	Less than
>	Greater than

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1 Introduction

This report outlines the Drinking Water Quality Management Plan (DWQMP) for Mareeba Shire Council (MSC) for the 2024–2025 financial year.

MSC is a registered drinking water service provider (SPID 557) and operates under an approved DWQMP to ensure the consistent supply of safe, high-quality drinking water to protect public health. This is achieved through the proactive identification and management of risks associated with drinking water quality.

The report is a review of the Water and Waste Department's implementation of the approved DWQMP and includes:

- Annual review outcomes
- Audit findings
- Compliance with water quality criteria
- Notices of non-compliance with water quality criteria
- Customer complaints

This report is submitted to the Regulator in accordance with regulatory requirements and is available to the public via the MSC website or by request at Council's Kowa Street office.

2 Summary of scheme/s operated

Table 1 - Summary of schemes

Scheme	Water Source	Treatment processes	Treatment capacity
Chillagoe	Bore	Coagulation, flocculation, clarification, filtration and chlorination	0.5 ML/d
Dimbulah	SunWater Irrigation Channel	Coagulation, flocculation, clarification, filtration and chlorination	1.2 ML/d
Mareeba	Barron River (Sunwater supplemented)	Coagulation, flocculation, clarification, filtration and chlorination	14.5 ML/d
Kuranda	Barron River (Sunwater supplemented)	Coagulation, flocculation, clarification, filtration and chlorination	2.0 ML/d

3 DWQMP Implementation

Throughout the reporting period, Water and Wastewater staff held monthly meetings to discuss all aspects of drinking water supply and delivery. These meetings were chaired by the Manager of Water and Waste.

During this period, staff within the Water and Waste Department were introduced to the DWQMP and played an ongoing role in its implementation. A summary of the actions undertaken to progress the DWQMP Improvement Program is provided below.

Scheme	Area	Mitigated	Proposed Measures	Proposed	Completion	Status
Chillagoe	Water Source	LOW	Include bore 4 in vulnerability assessment	Operational	2026	Proposal required
	Water Source	LOW	Harmful algal bloom management plan	Operational	2026	Not started
	Reticulation	MODERATE	Routine flushing, monitoring and repairs	Operational	Ongoing	Ongoing
	Storage and Reticulation Hazards	MODERATE	Installing a pressure leakage management system on proposed lines.	Operational	2026	Consultation required
	Telemetry	MODERATE	Routine monitoring and repairs	Operational	Ongoing	In action
	Water Source	HIGH	Implement pesticide and agricultural runoff testing	Operational	Ongoing	In action
	Disinfection	HIGH	Install Sodium Hypochlorite dosing	Operational	2025	Complete
Dimbulah	Water Source	LOW	Harmful algal bloom management plan	Operational	2026	Not started
	Water Source	LOW	Implement PFAS monitoring regime	Operational	2025	Under way
	Water source	MODERATE	Turbidity meters installation	Operational	2025	Complete
	Reticulation	MODERATE	Routine flushing, monitoring and repairs	Operational	Ongoing	Ongoing
	Telemetry	MODERATE	Routine monitoring and repairs	Operational	Ongoing	Ongoing
	Storage and Reticulation Hazards	MODERATE	Installing a pressure leakage management system on proposed lines.	Operational	2026	Consultation required
	Disinfection	HIGH	Install Sodium Hypochlorite dosing and coagulation	Operational	2025	Complete

Kuranda	Water Source	LOW	Implement PFAS monitoring regime	Operational	2025	Under way
	Storage and Reticulation Hazards	MODERATE	Installing a pressure leakage management system on proposed lines.	Operational	2025	Under way
	Water source	MODERATE	Turbidity meters installation	Operational	2025	Complete
Mareeba	Storage and Reticulation Hazards	MODERATE	Installing a pressure leakage management system on proposed lines.	Operational	2026	Under way
	Coagulation, flocculation and sedimentation	LOW	Clarifier Infrastructure process improvement and refurbishment	7,512	2025-2026	Not started
	Water Source	LOW	Implement PFAS monitoring regime	Operational	2025	Complete
	Storage and Reticulation Hazards	VERY HIGH	Install pressure booster system at Mareeba WTP to service the Mareeba township. Southern area to be serviced by Centenary Park booster pump station.	\$3,500,000	2024	Complete
	Water Storage	VERY HIGH	Reservoir upgrade to 10ML	8,292,058	2025-2026	Design complete
	Treatment Plant Hazards	HIGH	Clear Water Booster Pump Station	\$3,082,950	2024	Complete
	Treatment Plant Hazards	HIGH	Clarifier Infrastructure Process Improvements	\$340,000	2025	Complete
	Treatment Plant Hazards	HIGH	Raw Water Pump Station Upgrade	\$792,540	2024	Complete
	Treatment Plant Hazards	HIGH	Filtration Upgrade Project	\$7,603,830	2024	Complete

Shire Wide	Water Source	LOW	Agricultural run-off assessment	Operational	2023-2025	In progress
	System Wide Hazards	LOW	AC Pipe replacement	\$1,800,000	Ongoing program	In Progress
	System Wide Hazards	MODERATE	Ongoing annual infrastructure and software updates and improvements	\$80,000	Ongoing	In Progress
	Cyber security	HIGH	Increase cyber security	Operational	Ongoing	In progress
	System Wide Hazards	VERY HIGH	Assess training needs through internal audits and general feedback: training, multiskilling, job swapping, traineeships & relief staff.	Operational	Ongoing	In Progress, through HR

4 DWQMP Review

No review was required or conducted during the relevant financial year 01/07/2024 to 30/06/2025

5 DWQMP Audit findings

An audit was conducted on the DWQMP during the month of March 2025. The purpose of the audit was to:

- audit the monitoring and performance data provided to the regulator under the plan
- assess the service provider's compliance with the plan
- assess the relevance of the plan in relation to the provider's drinking water service.

MSC was compliant with respect to all aspects of the DWQMP. Compliance criteria included:

- accuracy of its operational monitoring program
- implementation of preventive measures for managing hazards and hazardous events.
- process for managing incidents and emergencies including reporting requirements to the regulator
- operational (including critical control points, as relevant) and verification monitoring programs

6 Compliance with water quality criteria

This section discusses the compliance with the water quality criteria.

Table 3 displays all the tested parameters for the previous water year (1 July 2024 - 30 Jun 2025) in accordance with the guideline values for microbial, chemical and physical characteristics listed in section 10.3.7 of the ADWG 2025 for each drinking water scheme.

Exceedances are seen when the laboratory limit of reporting values are less the Australian Drinking Water Guidelines.

Table 3 – Tested parameters for Drinking water at each Schemes

Scheme name	Parameter	DWQMP samples required	No. of samples taken	Min	Max	Average	ADWG Value	No. of Exceedances	Units	LOR
Chillagoe	(EtFOSA)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	(EtFOSAA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	(EtFOSE)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	(MeFOSA)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	(MeFOSAA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	(MeFOSE)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	4.4`-DDD		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	4.4`-DDE		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	4.4`-DDT		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Acephate	2	4	<0.5	<0.5	0.5	0.008	1	µg/L	<0.5
Chillagoe	Aldrin & Dieldrin		4	<0.01	<0.01	0.01	0.0003 (combined)		µg/L	<0.1
Chillagoe	alpha-BHC		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	alpha-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Apparent Colour	2	4	<1	<1	1			Pt/Co units	
Chillagoe	Azinphos-ethyl	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Azinphos-methyl	2	4	<0.02	<0.02	0.02	0.03		µg/L	<0.02
Chillagoe	Bensulide	2	4	<0.1	<0.1	0.1			µg/L	
Chillagoe	beta-BHC		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	beta-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Bore 4 depth		83	7.6	20	16.5			m	
Chillagoe	Bromodichloromethane		1	<5.0	<5.0	5			µg/L	
Chillagoe	Bromoform		1	<5.0	<5.0	5			µg/L	
Chillagoe	Bromophos-ethyl	2	4	<0.10	<0.10	0.1	0.01 f		µg/L	<0.10

Chillagoe	Calcium	2	5	<0.1	150	114			mg/L	<0.2
Chillagoe	Carbofenothion	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Chlorate		1	0.082	0.082	0.082	c e		mg/L	
Chillagoe	Chlorfenvinphos	2	4	<0.02	<0.02	0.02	0.002	1	µg/L	<0.02
Chillagoe	Chloride		4	3.3	8.6	6.1	250		mg/L	<1
Chillagoe	Chloroform		1	<5.0	<5.0	5			µg/L	
Chillagoe	Chlorpyrifos	2	4	<0.02	<0.02	0.02	0.01	1	µg/L	<0.02
Chillagoe	Chlorpyrifos-methyl	2	4	<0.20	<0.20	0.2			µg/L	
Chillagoe	cis-Chlordane		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Coumaphos	2	4	<0.01	<0.01	0.01			µg/L	
Chillagoe	delta-BHC		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Demeton-O	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Demeton-O & Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Demeton-S-methyl	2	4	<0.02	<0.02	0.02			µg/L	
Chillagoe	Diazinon	2	4	<0.01	<0.01	0.01	0.004	1	µg/L	<0.01
Chillagoe	Dibromochloromethane		1	<5.0	<5.0	5			µg/L	
Chillagoe	Dichlorvos	2	4	<0.20	<0.20	0.2	0.005	1	µg/L	<0.2
Chillagoe	Dieldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Chillagoe	Dimethoate	2	4	<0.02	<0.02	0.02	0.007	1	µg/L	<0.02
Chillagoe	Disulfoton	2	4	<0.05	<0.05	0.05	0.004	1	µg/L	<0.05
Chillagoe	E coli		2	<1	<1	1			CFU/100mL	
Chillagoe	E. coli (IH)	12	17	<1	<1	1			MPN/100 mL	
Chillagoe	Electrical Conductance	2	5	680	750	712			µS/cm	<2
Chillagoe	Endosulfan (sum)		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Endosulfan sulfate		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Endrin		4	<0.01	<0.01	0.01			µg/L	

Chillagoe	Endrin aldehyde		4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Endrin ketone		4	<0.010	<0.010	0.01			µg/L	
Chillagoe	EPN	2	4	<0.05	<0.05	0.05			µg/L	
Chillagoe	Ethion	2	4	<0.02	<0.02	0.02	0.004	1	µg/L	<0.02
Chillagoe	Ethoprophos	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Chillagoe	Fenamiphos	2	4	<0.01	<0.01	0.01	0.0005	1	µg/L	<0.01
Chillagoe	Fenchlorphos (Ronnel)	2	4	<10.0	<10.0	10			µg/L	
Chillagoe	Fenitrothion	2	4	<2.0	<2.0	2	0.007	1	µg/L	<2
Chillagoe	Fensulfothion	2	4	<0.01	<0.01	0.01	0.01 f		µg/L	<0.01
Chillagoe	Fenthion	2	4	<0.05	<0.05	0.05	0.007	1	µg/L	<0.05
Chillagoe	Fluoride	2	4	0.07	0.1	0.08	1.5		mg/L	<0.02
Chillagoe	Fluorotelomer sulfonic acid (10:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	Fluorotelomer sulfonic acid (4:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	Fluorotelomer sulfonic acid (6:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	Fluorotelomer sulfonic acid (8:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Chillagoe	Formothion		4	<20.0	<20.0	20	0.05 f		µg/L	
Chillagoe	Fosetyl Aluminium	2	4	<10.0	<10.0	10			µg/L	
Chillagoe	Free Chlorine		2	1.2	1.3	1.25			mg/L	
Chillagoe	Free Chlorine (IH)		215	0.82	1.4	1.18			mg/L	
Chillagoe	Free Chlorine (Instr.)		85	1.12	1.78	1.33			mg/L	
Chillagoe	Heptachlor	2	4	<0.005	<0.005	0.005			µg/L	<0.005
Chillagoe	Heptachlor epoxide	2	4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Heterotrophic Plate Count		2	<10	<10	10			CFU/mL	
Chillagoe	Hexachlorobenzene (HCB)	2	4	<0.01	<0.01	0.01			µg/L	
Chillagoe	ICPMS Aluminium		5	<0.008	0.012	0.01			mg/L	
Chillagoe	ICPMS Antimony	2	4	<0.000	<0.001	0.001			mg/L	

Chillagoe	ICPMS Arsenic		5	0.0003	0.0012	0.0008	mg/L
Chillagoe	ICPMS Barium	2	4	0.036	0.039	0.038	mg/L
Chillagoe	ICPMS Beryllium	2	4	<0.0001	<0.001 0	0.0006	mg/L
Chillagoe	ICPMS Boron	2	4	<0.05	<0.05	0.05	mg/L
Chillagoe	ICPMS Cadmium	2	4	<0.0001	<0.000 1	0.0001	mg/L
Chillagoe	ICPMS Chromium	2	4	<0.0005	<0.001 0	0.0008	mg/L
Chillagoe	ICPMS Cobalt	2	4	<0.0010	<0.001 0	0.0005	mg/L
Chillagoe	ICPMS Copper	2	4	0.002	0.032	0.017	mg/L
Chillagoe	ICPMS Iron	2	4	<0.015	<0.050	0.033	mg/L
Chillagoe	ICPMS Lead	2	4	0.0002	0.0013	0.0009	mg/L
Chillagoe	ICPMS Manganese	2	4	0.0008	0.002	0.0012	mg/L
Chillagoe	ICPMS Molybdenum	2	4	<0.0005	<0.001	0.0008	mg/L
Chillagoe	ICPMS Nickel	2	4	<0.0002	<0.001	0.0006	mg/L
Chillagoe	ICPMS Selenium	2	4	<0.002	<0.010	0.006	mg/L
Chillagoe	ICPMS Silver	2	4	<0.0002	<0.001	0.0006	mg/L
Chillagoe	ICPMS Thallium	2	4	<0.0010	<0.001	0.0005	mg/L
Chillagoe	ICPMS Thorium	2	4	<0.000	<0.001	0.001	mg/L
Chillagoe	ICPMS Tin	2	4	<0.000	<0.001	0.001	mg/L
Chillagoe	ICPMS Titanium	2	4	<0.000	<0.010	0.005	mg/L
Chillagoe	ICPMS Uranium	2	4	0.0004	<0.001	0.0007	mg/L
Chillagoe	ICPMS Vanadium	2	4	0.0005	<0.010	0.0055	mg/L
Chillagoe	ICPMS Zinc	2	4	0.006	0.019	0.013	mg/L
Chillagoe	ICPOES Silicon	2	4	19	23	20.8	mg/ L SiO2
Chillagoe	Langliers Index	2	4	0.45	0.75	0.58	
Chillagoe	Magnesium	2	5	<0.1	3.4	2.4	mg/L
Chillagoe	Malathion	2	4	<0.02	<0.02	0.02	µg/L

Chillagoe	Mercury	2	4	<0.06	<0.06	0.06	0.001	1	µg/L	<0.06
Chillagoe	Methidathion	2	4	<0.1	<0.1	0.1	0.006	1	µg/L	<0.1
Chillagoe	Methoxychlor	2	4	<0.01	<0.01	0.01	0.3 f		µg/L	<0.01
Chillagoe	Mevinphos	2	4	<0.02	<0.02	0.02	0.005	1	µg/L	<0.02
Chillagoe	Monocrotophos	2	4	<0.02	<0.02	0.02	0.002 f		µg/L	<0.02
Chillagoe	Naftalofos	2	4	<1.0	<1.0	1			µg/L	
Chillagoe	Omethoate	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Chillagoe	Oxychlorane	2	4	<0.01	<0.01	0.01			µg/L	
Chillagoe	Parathion	2	4	<0.20	<0.20	0.2	0.02	1	µg/L	<0.2
Chillagoe	Parathion-methyl	2	4	<0.50	<0.50	0.5	0.0007	1	µg/L	<0.5
Chillagoe	Perfluorobutane sulfonic acid (PFBS)		2	<0.002	<0.002	0.002	0.03 µg/L		µg/L	
Chillagoe	Perfluorobutanoic acid (PFBA)		2	<0.010	<0.010	0.01			µg/L	
Chillagoe	Perfluorodecane sulfonic acid (PFDS)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorodecanoic acid (PFDA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorododecanoic acid (PFDoDA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluoroheptane sulfonic acid (PFHpS)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluoroheptanoic acid (PFHpA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorohexane sulfonic acid (PFHxS)		2	<0.002	<0.002	0.002	0.008 µg/L		µg/L	
Chillagoe	Perfluorohexanoic acid (PFHxA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorononanoic acid (PFNA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorooctane sulfonamide (FOSA)		2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorooctane sulfonic acid (PFOS)		2	<0.002	<0.002	0.002	0.2 µg/L		µg/L	
Chillagoe	Perfluorooctanoic acid (PFOA)		2	<0.002	<0.002	0.002	0.2 µg/L		µg/L	

Chillagoe	Perfluoropentane sulfonic acid (PFPeS)	2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluoropentanoic acid (PFPeA)	2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluorotetradecanoic acid (PFTeDA)	2	<0.005	<0.005	0.005			µg/L	
Chillagoe	Perfluorotridecanoic acid (PFTrDA)	2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Perfluoroundecanoic acid (PFUnDA)	2	<0.002	<0.002	0.002			µg/L	
Chillagoe	pH	5	7.1	7.4	7.2	c			<0.1
Chillagoe	pH (Instr.)	85	6.6	7.1	6.9				
Chillagoe	pH @ 25 deg C	2	4	6.7	6.7	6.7			
Chillagoe	Phorate	2	4	<0.1	<0.1	0.1		µg/L	
Chillagoe	Pirimiphos-ethyl	2	4	<0.01	<0.01	0.01	0.0005 f	µg/L	<0.01
Chillagoe	Pirimiphos-methyl	2	4	<0.01	<0.01	0.01		µg/L	
Chillagoe	Potassium	2	4	0.51	0.66	0.59		mg/L	<0.15
Chillagoe	Profenofos	2	4	<0.01	<0.01	0.01	0.0003	1	µg/L <0.01
Chillagoe	Prothiofos	2	4	<0.10	<0.10	0.1		µg/L	
Chillagoe	Pyrazophos	2	4	<0.1	<0.1	0.1	0.02	1	µg/L <0.1
Chillagoe	Rainfall	363	0.0	62.4	3.3			mm	
Chillagoe	Salinity (psu)	2	4	0.331	0.367	0.349		psu	
Chillagoe	SAR_CALC	2	4	0.07	0.17	0.12		Units	
Chillagoe	Sodium	2	4	3.1	7.4	5.3	Not necessary	mg/L	<0.15
Chillagoe	Sulfotep	2	4	<0.005	<0.005	0.005		µg/L	
Chillagoe	Sulphate	2	4	2.4	3.1	2.75		mg/L	
Chillagoe	Sulprofos	2	4	<0.05	<0.05	0.05	0.01	1	µg/L <0.05
Chillagoe	Sum of DDD + DDE + DDT	2	4	<0.01	<0.01	0.01		µg/L	
Chillagoe	SUM of PFAS	2	<0.002	<0.002	0.002			µg/L	
Chillagoe	Sum of PFAS (WA DER List)	2	<0.00	<0.00	0			µg/L	

Chillagoe	SUM of PFHxS and PFOS		2	<0.002	<0.002	0.002		µg/L	
Chillagoe	Temephos	2	4	<0.02	<0.02	0.02	0.4	1	µg/L <0.020
Chillagoe	Temperature (IH)		21	22.4	29.2	27.8			deg C
Chillagoe	Terbufos	2	4	<0.01	<0.01	0.01	0.0009	1	µg/L <0.01
Chillagoe	Tetrachlorvinphos	2	4	<0.01	<0.01	0.01	0.1 f		µg/L <0.01
Chillagoe	Thiometon	2	4	<0.5	<0.5	0.5	0.004 f		µg/L <0.5
Chillagoe	Total Alkalinity	2	4	370	380	375			mg CaCO3 / L
Chillagoe	Total Chlordane (sum)	2	4	<0.01	<0.01	0.01			µg/L
Chillagoe	Total Chlorine		2	1.3	1.3	1.3			mg/L
Chillagoe	Total Chlorine (IH)		215	0.86	1.57	1.26			mg/L
Chillagoe	Total Chlorine (Instr.)		18	1.26	1.55	1.38			mg/L
Chillagoe	Total coliforms	2	2	<1	<1	1			CFU/100m L
Chillagoe	Total Coliforms (IH)		17	<1	<1	1			MPN/100 mL
Chillagoe	Total Connections		365	127	127	127			count
Chillagoe	Total Dissolved Solids	2	4	390	430	410	Not necessary		mg/L <10
Chillagoe	Total Hardness		5	<1.0	380	298.2			mg CaCO3 / L
Chillagoe	Total Trihalomethanes		1	<5.0	<5.0	5			µg/L
Chillagoe	trans-Chlordane	2	4	<0.01	<0.01	0.01			µg/L
Chillagoe	Triazophos	2	4	<0.005	<0.005	0.005			µg/L
Chillagoe	Trichlorfon	2	4	<0.02	<0.02	0.02	0.007	1	µg/L <0.02
Chillagoe	Trichloronate	2	4	<0.5	<0.5	0.5			µg/L
Chillagoe	Turbidity		22	0.000	0.1	0.033	c		NTU <0.1
Dimbulah	(EtFOSA)		2	<0.005	<0.005	0.005			µg/L
Dimbulah	(EtFOSAA)		2	<0.002	<0.002	0.002			µg/L
Dimbulah	(EtFOSE)		2	<0.005	<0.005	0.005			µg/L

Dimbulah	(MeFOSA)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	(MeFOSAA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	(MeFOSE)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	4.4`-DDD		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	4.4`-DDE		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	4.4`-DDT		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Acephate	2	4	<0.5	<0.5	0.5	0.008	1	µg/L	<0.5
Dimbulah	Aldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Dimbulah	Alkalinity (IH)	156	297	17	33	24			mg/100mL	
Dimbulah	alpha-BHC		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	alpha-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Apparent Colour	2	4	<1	25	10			Pt/Co units	
Dimbulah	Azinphos-ethyl	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Azinphos-methyl	2	4	<0.02	<0.02	0.02	0.03	1	µg/L	<0.02
Dimbulah	Bensulide	2	4	<0.1	<0.1	0.1			µg/L	
Dimbulah	beta-BHC		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	beta-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Bromodichloromethane		2	8	15	11.5			µg/L	
Dimbulah	Bromoform		2	<5.0	<5.0	5			µg/L	
Dimbulah	Bromophos-ethyl	2	4	<0.10	<0.10	0.1	0.01 f		µg/L	<0.10
Dimbulah	Calcium	2	5	2.9	3.2	3			mg/L	<0.2
Dimbulah	Carbofenothion	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Chlorate		2	0.133	0.225	0.179	c e		mg/L	
Dimbulah	Chlorfenvinphos	2	4	<0.02	<0.02	0.02	0.002	1	µg/L	<0.02
Dimbulah	Chloride	2	4	6.4	17	11.2	250		mg/L	<1
Dimbulah	Chloroform		2	22	43	32.5			µg/L	
Dimbulah	Chlorpyrifos	2	4	<0.02	<0.02	0.02	0.01	1	µg/L	<0.02
Dimbulah	Chlorpyrifos-methyl	2	4	<0.20	<0.20	0.2			µg/L	

Dimbulah	cis-Chlordane		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Coumaphos	2	4	<0.01	<0.01	0.01			µg/L	
Dimbulah	delta-BHC		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Demeton-O	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Demeton-O & Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Demeton-S-methyl	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Diazinon	2	4	<0.01	<0.01	0.01	0.004	1	µg/L	<0.01
Dimbulah	Dibromochloromethane		2	<5.0	<5.0	5			µg/L	
Dimbulah	Dichlorvos	2	4	<0.20	<0.20	0.2	0.005	1	µg/L	<0.2
Dimbulah	Dieldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Dimbulah	Dimethoate	2	4	<0.02	<0.02	0.02	0.007	1	µg/L	<0.02
Dimbulah	Disulfoton	2	4	<0.05	<0.05	0.05	0.004	1	µg/L	<0.05
Dimbulah	DO (mg/L) (IH)	159	297	3.89	89.4	7.25			mg/L	
Dimbulah	E coli		2	<1	<1	1			CFU/100mL	
Dimbulah	E. coli (IH)	52	142	<1	1300	22			MPN/100 mL	
Dimbulah	Electrical Conductance	2	5	74	110	90			µS/cm	<2
Dimbulah	Electrical Conductance (IH)	156	297	29	120	81			uS/cm	
Dimbulah	Endosulfan (sum)		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Endosulfan sulfate		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Endrin		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Endrin aldehyde		4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Endrin ketone		4	<0.010	<0.010	0.01			µg/L	
Dimbulah	EPN	2	4	<0.05	<0.05	0.05			µg/L	
Dimbulah	Ethion	2	4	<0.02	<0.02	0.02	0.004	1	µg/L	<0.02
Dimbulah	Ethoprophos	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Dimbulah	Fenamiphos	2	4	<0.01	<0.01	0.01	0.0005	1	µg/L	<0.01

Dimbulah	Fenchlorphos (Ronnel)	2	4	<10.0	<10.0	10			µg/L	
Dimbulah	Fenitrothion	2	4	<2.0	<2.0	2	0.007	1	µg/L	<2
Dimbulah	Fensulfothion	2	4	<0.01	<0.01	0.01	0.01 f		µg/L	<0.01
Dimbulah	Fenthion	2	4	<0.05	<0.05	0.05	0.007	1	µg/L	<0.05
Dimbulah	Fluoride	2	4	<0.03	0.06	0.04	1.5		mg/L	<0.02
Dimbulah	Fluorotelomer sulfonic acid (10:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	Fluorotelomer sulfonic acid (4:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	Fluorotelomer sulfonic acid (6:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	Fluorotelomer sulfonic acid (8:2 FTS)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	Formothion		4	<20.0	<20.0	20	0.05 f		µg/L	
Dimbulah	Fosetyl Aluminium	2	4	<10.0	<10.0	10			µg/L	
Dimbulah	Free Chlorine		2	1.1	1.4	1.25			mg/L	
Dimbulah	Free Chlorine (IH)		456	0.07	2	1.2			mg/L	
Dimbulah	Heptachlor	2	4	<0.005	<0.005	0.005			µg/L	<0.005
Dimbulah	Heptachlor epoxide	2	4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Heterotrophic Plate Count		2	<10	<10	10			CFU/mL	
Dimbulah	Hexachlorobenzene (HCB)	2	4	<0.01	<0.01	0.01			µg/L	
Dimbulah	ICPMS Aluminium	2	4	0.03	0.18	0.082			mg/L	
Dimbulah	ICPMS Antimony	2	4	<0.000	<0.001	0.001			mg/L	
Dimbulah	ICPMS Arsenic	2	4	0.0009	0.0018	0.0012			mg/L	
Dimbulah	ICPMS Barium	2	4	0.01	0.015	0.013			mg/L	
Dimbulah	ICPMS Beryllium	2	4	<0.0001	<0.001	0.0006			mg/L	
Dimbulah	ICPMS Boron	2	4	<0.05	<0.05	0.05			mg/L	
Dimbulah	ICPMS Cadmium	2	4	<0.0001	<0.000	1	0.0001		mg/L	
Dimbulah	ICPMS Chromium	2	4	<0.0005	<0.001	0.0008			mg/L	

Dimbulah	ICPMS Cobalt	2	4	0.0002	<0.001	0.0006			mg/L	
Dimbulah	ICPMS Copper	2	4	0.001	0.003	0.002			mg/L	
Dimbulah	ICPMS Iron	2	4	<0.015	0.728	0.241			mg/L	
Dimbulah	ICPMS Lead	2	4	0.0001	<0.001	0.0006			mg/L	
Dimbulah	ICPMS Manganese	2	4	0.0007	0.0312	0.0127			mg/L	
Dimbulah	ICPMS Molybdenum	2	4	<0.0005	<0.001	0.0008			mg/L	
Dimbulah	ICPMS Nickel	2	4	<0.0002	<0.001	0.0007			mg/L	
Dimbulah	ICPMS Selenium	2	4	<0.002	<0.010	0.006			mg/L	
Dimbulah	ICPMS Silver	2	4	<0.0002	<0.001	0.0006			mg/L	
Dimbulah	ICPMS Thallium	2	4	<0.0010	<0.001	0.0005			mg/L	
Dimbulah	ICPMS Thorium	2	4	<0.000	<0.001	0.001			mg/L	
Dimbulah	ICPMS Tin	2	4	<0.000	<0.001	0.001			mg/L	
Dimbulah	ICPMS Titanium	2	4	<0.000	<0.010	0.006			mg/L	
Dimbulah	ICPMS Uranium	2	4	<0.0010	<0.001	0.0005			mg/L	
Dimbulah	ICPMS Vanadium	2	4	0.0004	<0.010	0.0053			mg/L	
Dimbulah	ICPMS Zinc	2	4	<0.003	<0.005	0.004			mg/L	
Dimbulah	ICPOES Silicon	2	4	11	14	12.5			mg/ L SiO2	
Dimbulah	Langliers Index	2	4	-1.8	-1.6	-1.68				
Dimbulah	Magnesium	2	5	2.5	2.8	2.7			mg/L	
Dimbulah	Malathion	2	4	<0.02	<0.02	0.02			µg/L	
Dimbulah	Mercury	2	4	<0.06	<0.06	0.06	0.001	1	µg/L	<0.06
Dimbulah	Methidathion	2	4	<0.1	<0.1	0.1	0.006	1	µg/L	<0.1
Dimbulah	Methoxychlor	2	4	<0.01	<0.01	0.01	0.3 f		µg/L	<0.01
Dimbulah	Mevinphos	2	4	<0.02	<0.02	0.02	0.005	1	µg/L	<0.02
Dimbulah	Monocrotophos	2	4	<0.02	<0.02	0.02	0.002 f		µg/L	<0.02
Dimbulah	Naftalofos	2	4	<1.0	<1.0	1			µg/L	
Dimbulah	Omethoate	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Dimbulah	Oxychlorane	2	4	<0.01	<0.01	0.01			µg/L	
Dimbulah	Parathion	2	4	<0.20	<0.20	0.2	0.02	1	µg/L	<0.2

Dimbulah	Parathion-methyl	2	4	<0.50	<0.50	0.5	0.0007	1	µg/L	<0.5
Dimbulah	Perfluorobutane sulfonic acid (PFBS)		2	<0.002	<0.002	0.002	0.03 µg/L		µg/L	
Dimbulah	Perfluorobutanoic acid (PFBA)		2	<0.010	<0.010	0.01			µg/L	
Dimbulah	Perfluorodecane sulfonic acid (PFDS)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorodecanoic acid (PFDA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorododecanoic acid (PFDoDA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluoroheptane sulfonic acid (PFHpS)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluoroheptanoic acid (PFHpA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorohexane sulfonic acid (PFHxS)		2	<0.002	<0.002	0.002	0.008 µg/L		µg/L	
Dimbulah	Perfluorohexanoic acid (PFHxA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorononanoic acid (PFNA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorooctane sulfonamide (FOSA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorooctane sulfonic acid (PFOS)		2	<0.002	<0.002	0.002	0.2 µg/L		µg/L	
Dimbulah	Perfluorooctanoic acid (PFOA)		2	<0.002	<0.002	0.002	0.2 µg/L		µg/L	
Dimbulah	Perfluoropentane sulfonic acid (PFPeS)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluoropentanoic acid (PFPeA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluorotetradecanoic acid (PFTeDA)		2	<0.005	<0.005	0.005			µg/L	
Dimbulah	Perfluorotridecanoic acid (PFTrDA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	Perfluoroundecanoic acid (PFUnDA)		2	<0.002	<0.002	0.002			µg/L	
Dimbulah	pH		5	7.6	7.8	7.7	c			<0.1

Dimbulah	pH (IH)	365	297	6.36	8.89	7.57			
Dimbulah	pH @ 25 deg C	2	4	9.4	9.5	9.4			
Dimbulah	Phorate	2	4	<0.1	<0.1	0.1			µg/L
Dimbulah	Pirimiphos-ethyl	2	4	<0.01	<0.01	0.01	0.0005 f		µg/L <0.01
Dimbulah	Pirimiphos-methyl	2	4	<0.01	<0.01	0.01			µg/L
Dimbulah	Potassium	2	4	1.5	1.9	1.65			mg/L <0.15
Dimbulah	Profenofos	2	4	<0.01	<0.01	0.01	0.0003	1	µg/L <0.01
Dimbulah	Prothiofos	2	4	<0.10	<0.10	0.1			µg/L
Dimbulah	Pyrazophos	2	4	<0.1	<0.1	0.1	0.02	1	µg/L <0.1
Dimbulah	Rainfall		365	0.0	71	2.7			mm
Dimbulah	Salinity (psu)	2	4	0.0397	0.0542	0.0458			psu
Dimbulah	SAR_CALC	2	4	0.56	1.2	0.85			Units
Dimbulah	Sodium	2	4	5.7	12	8.5	Not necessary		mg/L <0.15
Dimbulah	Sulfotep	2	4	<0.005	<0.005	0.005			µg/L
Dimbulah	Sulphate	2	4	0.82	1.2	0.96			mg/L
Dimbulah	Sulprofos	2	4	<0.05	<0.05	0.05	0.01	1	µg/L <0.05
Dimbulah	Sum of DDD + DDE + DDT	2	4	<0.01	<0.01	0.01			µg/L
Dimbulah	SUM of PFAS		2	<0.002	<0.002	0.002			µg/L
Dimbulah	Sum of PFAS (WA DER List)		2	<0.00	<0.00	0			µg/L
Dimbulah	SUM of PFHxS and PFOS		2	<0.002	<0.002	0.002			µg/L
Dimbulah	Temephos	2	4	<0.02	<0.02	0.02	0.4	1	µg/L <0.020
Dimbulah	Temperature (IH)	156	297	18.4	31.3	25.7			deg C
Dimbulah	Terbufos	2	4	<0.01	<0.01	0.01	0.0009	1	µg/L <0.01
Dimbulah	Tetrachlorvinphos	2	4	<0.01	<0.01	0.01	0.1 f		µg/L <0.01
Dimbulah	Thiometon	2	4	<0.5	<0.5	0.5	0.004 f		µg/L <0.5
Dimbulah	Total Alkalinity	2	4	20	23	21.8			mg CaCO3 / L
Dimbulah	Total Chlordane (sum)	2	4	<0.01	<0.01	0.01			µg/L

Dimbulah	Total Chlorine	2	1.1	1.6	1.35			mg/L	
Dimbulah	Total Chlorine (IH)	456	0.24	2.16	1.33			mg/L	
Dimbulah	Total coliforms	2	2	<1	<1	1		CFU/100mL	
Dimbulah	Total Coliforms (IH)	142	<1	>2420	769			MPN/100 mL	
Dimbulah	Total Connections	365	246	246	246			count	
Dimbulah	Total Dissolved Solids	2	4	52	65	57.3	Not necessary	mg/L	<10
Dimbulah	Total Hardness	2	5	18	20	18.8		mg CaCO3 / L	
Dimbulah	Total Trihalomethanes	2	30	58	44			µg/L	
Dimbulah	trans-Chlordane	2	4	<0.01	<0.01	0.01		µg/L	
Dimbulah	Triazophos	2	4	<0.005	<0.005	0.005		µg/L	
Dimbulah	Trichlorfon	2	4	<0.02	<0.02	0.02	0.007	1	µg/L <0.02
Dimbulah	Trichloronate	2	4	<0.5	<0.5	0.5		µg/L	
Dimbulah	Turbidity	2	4	<0.100	2.3	1.125	c	NTU	<0.1
Dimbulah	Turbidity (IH)	Continuous	297	0.00	41	3.49		NTU	
Kuranda	4.4`-DDD	4	<0.01	<0.01	0.01			µg/L	
Kuranda	4.4`-DDE	4	<0.01	<0.01	0.01			µg/L	
Kuranda	4.4`-DDT	4	<0.01	<0.01	0.01			µg/L	
Kuranda	Acephate	2	4	<0.5	<0.5	0.5	0.008	1	µg/L <0.5
Kuranda	Aldrin	4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Kuranda	Alkalinity (IH)	694	13	72	33			mg/100mL	
Kuranda	alpha-BHC	4	<0.01	<0.01	0.01			µg/L	
Kuranda	alpha-Endosulfan	4	<0.01	<0.01	0.01			µg/L	
Kuranda	Apparent Colour	4	2	33	15			Pt/Co units	
Kuranda	Azinphos-ethyl	2	4	<0.02	<0.02	0.02		µg/L	

Kuranda	Azinphos-methyl	2	4	<0.02	<0.02	0.02	0.03	1	µg/L	<0.02
Kuranda	Bensulide	2	4	<0.1	<0.1	0.1			µg/L	
Kuranda	beta-BHC		4	<0.01	<0.01	0.01			µg/L	
Kuranda	beta-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Kuranda	Bromodichloromethane		7	7	18	11.9			µg/L	
Kuranda	Bromoform		7	<5.0	<5.0	5			µg/L	
Kuranda	Bromophos-ethyl	2	4	<0.10	<0.10	0.1	0.01 f		µg/L	<0.10
Kuranda	Calcium		4	4.7	6	5.4			mg/L	<0.2
Kuranda	Carbofenothion	2	4	<0.02	<0.02	0.02			µg/L	
Kuranda	Chlorate		7	0.122	0.412	0.275	c e		mg/L	
Kuranda	Chlorfenvinphos	2	4	<0.02	<0.02	0.02	0.002	1	µg/L	<0.02
Kuranda	Chloride		4	12	21	16.8	250		mg/L	<1
Kuranda	Chloroform		7	7	94	34.7			µg/L	
Kuranda	Chlorpyrifos	2	4	<0.02	<0.02	0.02	0.01	1	µg/L	<0.02
Kuranda	Chlorpyrifos-methyl	2	4	<0.20	<0.20	0.2			µg/L	
Kuranda	cis-Chlordane		4	<0.01	<0.01	0.01			µg/L	
Kuranda	Coumaphos	2	4	<0.01	<0.01	0.01			µg/L	
Kuranda	delta-BHC		4	<0.01	<0.01	0.01			µg/L	
Kuranda	Demeton-O	2	4	<0.02	<0.02	0.02			µg/L	
Kuranda	Demeton-O & Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Kuranda	Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Kuranda	Demeton-S-methyl	2	4	<0.02	<0.02	0.02			µg/L	
Kuranda	Diazinon	2	4	<0.01	<0.01	0.01	0.004	1	µg/L	<0.01
Kuranda	Dibromochloromethane		7	<5.0	9	5.9			µg/L	
Kuranda	Dichlorvos	2	4	<0.20	<0.20	0.2	0.005	1	µg/L	<0.2
Kuranda	Dieldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Kuranda	Dimethoate	2	4	<0.02	<0.02	0.02	0.007	1	µg/L	<0.02
Kuranda	Disulfoton	2	4	<0.05	<0.05	0.05	0.004	1	µg/L	<0.05
Kuranda	DO (mg/L) (IH)		694	6.7	9.6	8			mg/L	

Kuranda	E coli		2	<1	<1	1			CFU/100m L
Kuranda	E. coli (IH)		147	<1	>2420	130			MPN/100 mL
Kuranda	Electrical Conductance		4	110	160	138			µS/cm <2
Kuranda	Electrical Conductance (IH)		694	1	162	120			uS/cm
Kuranda	Endosulfan (sum)		4	<0.01	<0.01	0.01			µg/L
Kuranda	Endosulfan sulfate		4	<0.01	<0.01	0.01			µg/L
Kuranda	Endrin		4	<0.01	<0.01	0.01			µg/L
Kuranda	Endrin aldehyde		4	<0.01	<0.01	0.01			µg/L
Kuranda	Endrin ketone		4	<0.010	<0.010	0.01			µg/L
Kuranda	EPN	2	4	<0.05	<0.05	0.05			µg/L
Kuranda	Ethion	2	4	<0.02	<0.02	0.02	0.004	1	µg/L <0.02
Kuranda	Ethoprophos	2	4	<0.01	<0.01	0.01	0.001	1	µg/L <0.01
Kuranda	Fenamiphos	2	4	<0.01	<0.01	0.01	0.0005	1	µg/L <0.01
Kuranda	Fenchlorphos (Ronnel)	2	4	<10.0	<10.0	10			µg/L
Kuranda	Fenitrothion	2	4	<2.0	<2.0	2	0.007	1	µg/L <2
Kuranda	Fensulfothion	2	4	<0.01	<0.01	0.01	0.01 f		µg/L <0.01
Kuranda	Fenthion	2	4	<0.05	<0.05	0.05	0.007	1	µg/L <0.05
Kuranda	Fluoride		4	0.03	0.04	0.04	1.5		mg/L <0.02
Kuranda	Formothion		4	<20.0	<20.0	20	0.05 f		µg/L
Kuranda	Fosetyl Aluminium	2	4	<10.0	<10.0	10			µg/L
Kuranda	Free Chlorine		2	1.3	2	1.65			mg/L
Kuranda	Free Chlorine (IH)		503	0.7	2.8	1.53			mg/L
Kuranda	Heptachlor	2	4	<0.005	<0.005	0.005			µg/L <0.005
Kuranda	Heptachlor epoxide	2	4	<0.01	<0.01	0.01			µg/L
Kuranda	Heterotrophic Plate Count		2	<10	<10	10			CFU/mL
Kuranda	Hexachlorobenzene (HCB)	2	4	<0.01	<0.01	0.01			µg/L
Kuranda	ICPMS Aluminium	2	4	<0.010	0.181	0.088			mg/L

Kuranda	ICPMS Antimony	2	4	<0.000	<0.001	0.001	mg/L
Kuranda	ICPMS Arsenic	2	4	0.0005	0.001	0.0009	mg/L
Kuranda	ICPMS Barium	2	4	0.012	0.017	0.014	mg/L
Kuranda	ICPMS Beryllium	2	4	<0.0001	<0.001 0	0.0006	mg/L
Kuranda	ICPMS Boron	2	4	<0.05	<0.05	0.05	mg/L
Kuranda	ICPMS Cadmium	2	4	<0.0001	<0.000 1	0.0001	mg/L
Kuranda	ICPMS Chromium	2	4	<0.0005	<0.001 0	0.0008	mg/L
Kuranda	ICPMS Cobalt	2	4	0.0006	<0.001 0	0.0007	mg/L
Kuranda	ICPMS Copper	2	4	0.001	0.014	0.006	mg/L
Kuranda	ICPMS Iron	2	4	<0.015	0.754	0.347	mg/L
Kuranda	ICPMS Lead	2	4	0.0001	<0.001 0	0.0006	mg/L
Kuranda	ICPMS Manganese	2	4	0.0079	0.101	0.0447	mg/L
Kuranda	ICPMS Molybdenum	2	4	<0.0005	<0.001 0	0.0008	mg/L
Kuranda	ICPMS Nickel	2	4	<0.0002	<0.001 0	0.0007	mg/L
Kuranda	ICPMS Selenium	2	4	<0.002	<0.010	0.006	mg/L
Kuranda	ICPMS Silver	2	4	<0.0002	<0.001 0	0.0006	mg/L
Kuranda	ICPMS Thallium	2	4	<0.0010	<0.001 0	0.0005	mg/L
Kuranda	ICPMS Thorium	2	4	<0.000	<0.001	0.001	mg/L
Kuranda	ICPMS Tin	2	4	<0.000	<0.001	0.001	mg/L
Kuranda	ICPMS Titanium	2	4	<0.000	<0.010	0.007	mg/L
Kuranda	ICPMS Uranium	2	4	0.0001	<0.001 0	0.0005	mg/L

				<0.010					
Kuranda	ICPMS Vanadium	2	4	0.0006	0	0.0055			mg/L
Kuranda	ICPMS Zinc	2	4	<0.003	0.03	0.011			mg/L
Kuranda	ICPOES Silicon	2	4	19	22	20.8			mg/ L SiO2
Kuranda	Langliers Index	2	4	-1.6	-1	-1.25			
Kuranda	Magnesium	2	4	4.2	5.4	4.9			mg/L
Kuranda	Malathion	2	4	<0.02	<0.02	0.02			µg/L
Kuranda	Mercury	2	4	<0.06	<0.06	0.06	0.001	1	µg/L <0.06
Kuranda	Methidathion	2	4	<0.1	<0.1	0.1	0.006	1	µg/L <0.1
Kuranda	Methoxychlor	2	4	<0.01	<0.01	0.01	0.3 f		µg/L <0.01
Kuranda	Mevinphos	2	4	<0.02	<0.02	0.02	0.005	1	µg/L <0.02
Kuranda	Monocrotophos	2	4	<0.02	<0.02	0.02	0.002 f		µg/L <0.02
Kuranda	Naftalofos	2	4	<1.0	<1.0	1			µg/L
Kuranda	Omethoate	2	4	<0.01	<0.01	0.01	0.001	1	µg/L <0.01
Kuranda	Oxychlordan	2	4	<0.01	<0.01	0.01			µg/L
Kuranda	Parathion	2	4	<0.20	<0.20	0.2	0.02	1	µg/L <0.2
Kuranda	Parathion-methyl	2	4	<0.50	<0.50	0.5	0.0007	1	µg/L <0.5
Kuranda	pH	2	4	7.4	7.9	7.7	c		<0.1
Kuranda	pH (IH)	365	694	6.2	8.6	7.39			
Kuranda	pH @ 25 deg C	2	4	8.9	9.1	9			
Kuranda	Phorate	2	4	<0.1	<0.1	0.1			µg/L
Kuranda	Pirimiphos-ethyl	2	4	<0.01	<0.01	0.01	0.0005 f		µg/L <0.01
Kuranda	Pirimiphos-methyl	2	4	<0.01	<0.01	0.01			µg/L
Kuranda	Potassium	2	4	1.6	1.6	1.6			mg/L <0.15
Kuranda	Profenofos	2	4	<0.01	<0.01	0.01	0.0003	1	µg/L <0.01
Kuranda	Prothiofos	2	4	<0.10	<0.10	0.1			µg/L
Kuranda	Pyrazophos	2	4	<0.1	<0.1	0.1	0.02	1	µg/L <0.1
Kuranda	Rainfall		364	0.0	118.4	6.8			mm
Kuranda	Salinity (psu)	2	4	0.0576	0.079	0.0685			psu

Kuranda	SAR_CALC	2	4	0.8	1.1	0.96			Units	
Kuranda	Sodium	2	4	10	15	12.8	Not necessary		mg/L	<0.15
Kuranda	Sulfotep	2	4	<0.005	<0.005	0.005			µg/L	
Kuranda	Sulphate	2	4	1.3	1.7	1.55			mg/L	
Kuranda	Sulprofos	2	4	<0.05	<0.05	0.05	0.01	1	µg/L	<0.05
Kuranda	Sum of DDD + DDE + DDT	2	4	<0.01	<0.01	0.01			µg/L	
Kuranda	Temephos	2	4	<0.02	<0.02	0.02	0.4	1	µg/L	<0.020
Kuranda	Temperature (IH)		694	17.6	133	25.1			deg C	
Kuranda	Terbufos	2	4	<0.01	<0.01	0.01	0.0009	1	µg/L	<0.01
Kuranda	Tetrachlorvinphos	2	4	<0.01	<0.01	0.01	0.1 f		µg/L	<0.01
Kuranda	Thiometon	2	4	<0.5	<0.5	0.5	0.004 f		µg/L	<0.5
Kuranda	Total Alkalinity	2	4	34	39	36.3			mg CaCO3 / L	
Kuranda	Total Chlordane (sum)	2	4	<0.01	<0.01	0.01			µg/L	
Kuranda	Total Chlorine		2	1.4	2.4	1.9			mg/L	
Kuranda	Total Chlorine (IH)		503	0.8	145	1.96			mg/L	
Kuranda	Total coliforms	2	2	<1	<1	1			CFU/100m L	
Kuranda	Total Coliforms (IH)		147	<1	>2420	800			MPN/100 mL	
Kuranda	Total Connections		365	1053	1134	1053			count	
Kuranda	Total Dissolved Solids	2	4	78	96	86.8	Not necessary		mg/L	<10
Kuranda	Total Hardness	2	4	29	37	33.5			mg CaCO3 / L	
Kuranda	Total Trihalomethanes		7	22	110	49.6			µg/L	
Kuranda	trans-Chlordane	2	4	<0.01	<0.01	0.01			µg/L	
Kuranda	Triazophos	2	4	<0.005	<0.005	0.005			µg/L	
Kuranda	Trichlorfon	2	4	<0.02	<0.02	0.02	0.007	1	µg/L	<0.02

Kuranda	Trichloronate	2	4	<0.5	<0.5	0.5			µg/L	
Kuranda	Turbidity	2	4	0.1	5.2	2.25	c		NTU	<0.1
Kuranda	Turbidity (IH)	Continuous	694	0.01	125	4.26			NTU	
Mareeba	4.4`-DDD		4	<0.01	<0.01	0.01			µg/L	
Mareeba	4.4`-DDE		4	<0.01	<0.01	0.01			µg/L	
Mareeba	4.4`-DDT		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Acephate	2	4	<0.5	<0.5	0.5	0.008	1	µg/L	<0.5
Mareeba	Aldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Mareeba	Alkalinity (IH)		751	20	63	38			mg/100mL	
Mareeba	alpha-BHC		4	<0.01	<0.01	0.01			µg/L	
Mareeba	alpha-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Apparent Colour		4	<1	19	7			Pt/Co units	
Mareeba	Azinphos-ethyl	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Azinphos-methyl	2	4	<0.02	<0.02	0.02	0.03	1	µg/L	<0.02
Mareeba	Bensulide	2	4	<0.1	<0.1	0.1			µg/L	
Mareeba	beta-BHC		4	<0.01	<0.01	0.01			µg/L	
Mareeba	beta-Endosulfan		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Bromodichloromethane		9	7	22	13.8			µg/L	
Mareeba	Bromoform		9	<5.0	<5.0	5			µg/L	
Mareeba	Bromophos-ethyl	2	4	<0.10	<0.10	0.1	0.01 f		µg/L	<0.10
Mareeba	Calcium		4	4.4	7.6	6			mg/L	<0.2
Mareeba	Carbofenothion	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Chlorate		9	0.105	0.362	0.204	c e		mg/L	
Mareeba	Chlorfenvinphos	2	4	<0.02	<0.02	0.02	0.002	1	µg/L	<0.02
Mareeba	Chloride		4	7.9	13	11	250		mg/L	<1
Mareeba	Chloroform		9	10	122	42.6			µg/L	
Mareeba	Chlorpyrifos	2	4	<0.02	<0.02	0.02	0.01	1	µg/L	<0.02

Mareeba	Chlorpyrifos-methyl	2	4	<0.20	<0.20	0.2			µg/L	
Mareeba	cis-Chlordane		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Coumaphos	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	delta-BHC		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Demeton-O	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Demeton-O & Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Demeton-S	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Demeton-S-methyl	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Diazinon	2	4	<0.01	<0.01	0.01	0.004	1	µg/L	<0.01
Mareeba	Dibromochloromethane		9	<5.0	7	5.2			µg/L	
Mareeba	Dichlorvos	2	4	<0.20	<0.20	0.2	0.005	1	µg/L	<0.2
Mareeba	Dieldrin		4	<0.01	<0.01	0.01	0.00015	1	µg/L	
Mareeba	Dimethoate	2	4	<0.02	<0.02	0.02	0.007	1	µg/L	<0.02
Mareeba	Dissolved Oxygen (%) [in situ]		5	91.5	99.4	95.4			%	
Mareeba	Disulfoton	2	4	<0.05	<0.05	0.05	0.004	1	µg/L	<0.05
Mareeba	DO (mg/L) (IH)	365	757	5.5	70.03	7.79			mg/L	
Mareeba	E coli		2	<1	<1	1			CFU/100mL	
Mareeba	E. coli (IH)	52	150	<1	2420	114			MPN/100 mL	
Mareeba	Electrical Conductance		4	96	150	124			µS/cm	<2
Mareeba	Electrical Conductance (IH)	365	757	7	198	110			uS/cm	
Mareeba	Endosulfan (sum)		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Endosulfan sulfate		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Endrin		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Endrin aldehyde		4	<0.01	<0.01	0.01			µg/L	
Mareeba	Endrin ketone		4	<0.010	<0.010	0.01			µg/L	
Mareeba	EPN	2	4	<0.05	<0.05	0.05			µg/L	
Mareeba	Ethion	2	4	<0.02	<0.02	0.02	0.004	1	µg/L	<0.02

Mareeba	Ethoprophos	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Mareeba	Fenamiphos	2	4	<0.01	<0.01	0.01	0.0005	1	µg/L	<0.01
Mareeba	Fenchlorphos (Ronnel)	2	4	<10.0	<10.0	10			µg/L	
Mareeba	Fenitrothion	2	4	<2.0	<2.0	2	0.007	1	µg/L	<2
Mareeba	Fensulfothion	2	4	<0.01	<0.01	0.01	0.01 f		µg/L	<0.01
Mareeba	Fenthion	2	4	<0.05	<0.05	0.05	0.007	1	µg/L	<0.05
Mareeba	Fluoride		4	<0.03	0.04	0.03	1.5		mg/L	<0.02
Mareeba	Formothion		4	<20.0	<20.0	20	0.05 f		µg/L	
Mareeba	Fosetyl Aluminium	2	4	<10.0	<10.0	10			µg/L	
Mareeba	Free Chlorine		2	1.3	1.3	1.3			mg/L	
Mareeba	Free Chlorine (IH)		549	0.32	2.6	1.3			mg/L	
Mareeba	Heptachlor	2	4	<0.005	<0.005	0.005			µg/L	<0.005
Mareeba	Heptachlor epoxide	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	Heterotrophic Plate Count		2	<10	<10	10			CFU/mL	
Mareeba	Hexachlorobenzene (HCB)	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	ICPMS Aluminium		10	<0.008	0.28	0.111			mg/L	
Mareeba	ICPMS Aluminium - dissolved		6	<0.008	<0.100	0.067			mg/L	
Mareeba	ICPMS Antimony	2	4	<0.000	<0.001	0.001			mg/L	
Mareeba	ICPMS Arsenic	2	4	0.0004	<0.001	0.0008			mg/L	
Mareeba	ICPMS Barium	2	4	0.01	0.014	0.012			mg/L	
Mareeba	ICPMS Beryllium	2	4	<0.0001	<0.001	0.0006			mg/L	
Mareeba	ICPMS Boron	2	4	<0.05	<0.05	0.05			mg/L	
					<0.000					
Mareeba	ICPMS Cadmium	2	4	<0.0001	1	0.0001			mg/L	
Mareeba	ICPMS Chromium	2	4	<0.0005	<0.001	0.0008			mg/L	
Mareeba	ICPMS Cobalt	2	4	0.0004	<0.001	0.0006			mg/L	
Mareeba	ICPMS Copper	2	4	<0.001	0.002	0.001			mg/L	
Mareeba	ICPMS Iron	2	4	<0.015	0.436	0.153			mg/L	
Mareeba	ICPMS Lead	2	4	<0.0001	<0.001	0.0006			mg/L	

Mareeba	ICPMS Manganese	2	4	<0.0010	0.0708	0.0246			mg/L	
Mareeba	ICPMS Molybdenum	2	4	<0.0005	<0.001	0.0008			mg/L	
Mareeba	ICPMS Nickel	2	4	<0.0002	<0.001	0.0008			mg/L	
Mareeba	ICPMS Selenium	2	4	<0.002	<0.010	0.006			mg/L	
Mareeba	ICPMS Silver	2	4	<0.0002	<0.001	0.0006			mg/L	
Mareeba	ICPMS Thallium	2	4	<0.0010	<0.001	0.0005			mg/L	
Mareeba	ICPMS Thorium	2	4	<0.000	<0.001	0.001			mg/L	
Mareeba	ICPMS Tin	2	4	<0.000	<0.001	0.001			mg/L	
Mareeba	ICPMS Titanium	2	4	<0.000	<0.010	0.007			mg/L	
Mareeba	ICPMS Uranium	2	4	<0.0010	<0.001	0.0005			mg/L	
Mareeba	ICPMS Vanadium	2	4	0.0007	<0.010	0.0056			mg/L	
Mareeba	ICPMS Zinc	2	4	<0.003	0.006	0.004			mg/L	
Mareeba	ICPOES Silicon	2	4	17	27	22.3			mg/ L SiO2	
Mareeba	Langliers Index	2	4	-1.4	-0.84	-1.16				
Mareeba	Magnesium	2	4	4	6.3	5.2			mg/L	
Mareeba	Malathion	2	4	<0.02	<0.02	0.02			µg/L	
Mareeba	Mercury	2	4	<0.06	<0.06	0.06	0.001	1	µg/L	<0.06
Mareeba	Methidathion	2	4	<0.1	<0.1	0.1	0.006	1	µg/L	<0.1
Mareeba	Methoxychlor	2	4	<0.01	<0.01	0.01	0.3 f		µg/L	<0.01
Mareeba	Mevinphos	2	4	<0.02	<0.02	0.02	0.005	1	µg/L	<0.02
Mareeba	Monocrotophos	2	4	<0.02	<0.02	0.02	0.002 f		µg/L	<0.02
Mareeba	Naftalofos	2	4	<1.0	<1.0	1			µg/L	
Mareeba	Omethoate	2	4	<0.01	<0.01	0.01	0.001	1	µg/L	<0.01
Mareeba	Oxychlorane	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	Parathion	2	4	<0.20	<0.20	0.2	0.02	1	µg/L	<0.2
Mareeba	Parathion-methyl	2	4	<0.50	<0.50	0.5	0.0007	1	µg/L	<0.5
Mareeba	pH	2	10	7.6	7.9	7.8	c			<0.1
Mareeba	pH (IH)	365	757	6.5	8.04	7.51				
Mareeba	pH @ 25 deg C	2	4	8.7	9.1	8.9				

Mareeba	Phorate	2	4	<0.1	<0.1	0.1			µg/L	
Mareeba	Pirimiphos-ethyl	2	4	<0.01	<0.01	0.01	0.0005 f		µg/L	<0.01
Mareeba	Pirimiphos-methyl	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	Potassium	2	4	1.6	1.8	1.7			mg/L	<0.15
Mareeba	Profenofos	2	4	<0.01	<0.01	0.01	0.0003	1	µg/L	<0.01
Mareeba	Prothiofos	2	4	<0.10	<0.10	0.1			µg/L	
Mareeba	Pyrazophos	2	4	<0.1	<0.1	0.1	0.02	1	µg/L	<0.1
Mareeba	Rainfall		365	0.0	85	3.6			mm	
Mareeba	Salinity (psu)	2	4	0.0494	0.0734	0.063			psu	
Mareeba	SAR_CALC	2	4	0.61	0.93	0.72			Units	
Mareeba	Settled 1 Turbidity		170	0.21	5.04	2.36			NTU	
Mareeba	Settled 2 Turbidity		251	0.00	35	2.51			NTU	
Mareeba	Sodium	2	4	7.5	11	9.7	Not necessary		mg/L	<0.15
Mareeba	Sulfotep	2	4	<0.005	<0.005	0.005			µg/L	
Mareeba	Sulphate	2	4	0.81	1.1	0.94			mg/L	
Mareeba	Sulprofos	2	4	<0.05	<0.05	0.05	0.01	1	µg/L	<0.05
Mareeba	Sum of DDD + DDE + DDT	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	Temephos	2	4	<0.02	<0.02	0.02	0.4	1	µg/L	<0.020
Mareeba	Temperature (IH)	365	757	17.7	126.5	24.9			deg C	
Mareeba	Terbufos	2	4	<0.01	<0.01	0.01	0.0009	1	µg/L	<0.01
Mareeba	Tetrachlorvinphos	2	4	<0.01	<0.01	0.01	0.1 f		µg/L	<0.01
Mareeba	Thiometon	2	4	<0.5	<0.5	0.5	0.004 f		µg/L	<0.5
Mareeba	Total Alkalinity	2	4	32	48	40			mg CaCO3 / L	
Mareeba	Total Chlordane (sum)	2	4	<0.01	<0.01	0.01			µg/L	
Mareeba	Total Chlorine		2	1.4	1.6	1.5			mg/L	
Mareeba	Total Chlorine (IH)		549	0.54	2.8	1.43			mg/L	

Mareeba	Total coliforms	2	2	<1	<1	1		CFU/100m L	
Mareeba	Total Coliforms (IH)		150	<1	>2420	797		MPN/100 mL	
Mareeba	Total Connections		365	4141	4141	4141		count	
Mareeba	Total Dissolved Solids	2	4	66	92	80.3	Not necessary	mg/L	<10
Mareeba	Total Hardness	2	4	27	45	36		mg CaCO3 / L	
Mareeba	Total Suspended Solids		5	1.2	6.5	4.4		mg/L	
Mareeba	Total Trihalomethanes		9	17	144	57.7		µg/L	
Mareeba	trans-Chlordane	2	4	<0.01	<0.01	0.01		µg/L	
Mareeba	Triazophos	2	4	<0.005	<0.005	0.005		µg/L	
Mareeba	Trichlorfon	2	4	<0.02	<0.02	0.02	0.007	1	µg/L <0.02
Mareeba	Trichloronate	2	4	<0.5	<0.5	0.5		µg/L	
Mareeba	Turbidity	2	4	0.1	3.4	1.175	c	NTU	<0.1
Mareeba	Turbidity (IH)	Continuous	503	0.03	106.67	5.61		NTU	

7 Notices of noncompliance with water quality criteria

No notices of noncompliance were received for water quality criteria during the relevant financial year 01/07/2024 to 30/06/2025

8 Customer complaints

A summary of customer complaints is provided in Table 4. Water complaints are received usually due to low pressure, a water main break, water meter leaks.

Table 4 - Summary of customer complaints

Scheme name	Parameter	No. of Complaints
Chillagoe	Number water service complaints	1
Kuranda	Number water quality complaints	5
Mareeba	Number 'any other' water complaints	1
Mareeba	Number water billing/account complaints	1
Mareeba	Number water quality complaints	9
Mareeba	Number water service complaints	17