Fernwood and Highland Water Service

2024 Annual Report



INTRODUCTION

This report provides a summary of the Fernwood and Highland Water Service for 2024. It includes a description of the service, summary of the water supply, demand and production, drinking water quality, operations highlights, capital project updates and financial report.

SERVICE DESCRIPTION

In 2010 the Highland and Fernwood water services merged to construct new water treatment plant to operate as a single water system. Both former water services hold legacy budgets to repay existing debt and outstanding capital works. The service obtains its drinking water from St. Mary Lake, which lies within an uncontrolled multi-use watershed. The Capital Regional District (CRD) holds five licenses to divert a total of up to 230,000 m³ per year and store up to 30,800 m³. St. Mary Lake is subject to seasonal water quality changes and is affected by periodic algae blooms.

The Highland service was first developed in the 1970's under the name Vesuvius Holdings and was converted to the Highland Water System in 1978. It then became a CRD service in 2004. The Fernwood service was created in the 1970's by a private developer and was converted to the Fernwood Improvement Water District in 1984. It then became a Capital Regional District (CRD) service in 1989. The Fernwood and Highland Water Service (Figure 1) is comprised of 333 parcels of land with 320 of those parcels connected to the service.

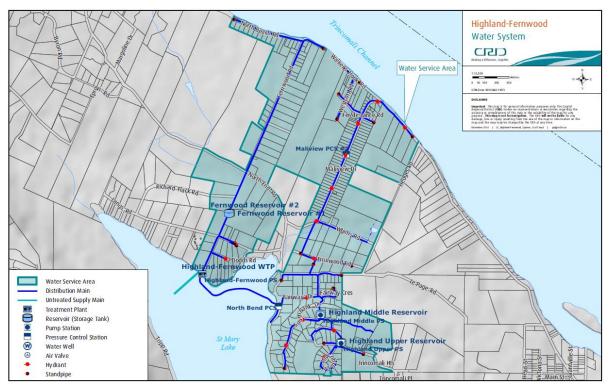


Figure 1: Fernwood and Highland Water Service

The Fernwood and Highland water system is primarily comprised of:

- a water treatment plant (WTP) that draws water from St. Mary Lake and treats it at a location on Maycock Road, adjacent to the lake. The water is treated using a rapid mix system, flocculation, dissolved air floatation (DAF) and filters, ultraviolet disinfection, then chlorination prior to being pumped, via the distribution system to two different reservoirs. The WTP design flow rate is 11.3 l/sec (150 lgpm);
- one raw water pump station on Maycock Road, adjacent to the lake. (flow rate of two pumps running is 4.6 l/sec (60 lgpm);
- approximately 12,000 m of water distribution pipe
- 4 water reservoirs one 180 m³ (40,000 lg) on the Highland system, one 91 m³ (20,000 lg) on the Highland system, one 45 m³ (10,000 lg) on the Fernwood system and, one 91 m³ (20,000 lg) on the Fernwood system
- 2 water system booster pumps:
 - o Highlands Middle Reservoir
 - o Highlands Upper Reservoir
- fire hydrants, standpipes, and gate valves
- water service connections complete with water meters
- 2 pressure reducing valve stations one on North End Road and one on Maliview Drive.

WATER PRODUCTION AND DEMAND

Referring to Figure 2, 78,226 cubic meters (m³) of water was extracted (water production) from St. Marys Lake in 2024; a 12% increase from the previous year and a 8% increase from the five-year rolling average. Water demand (customer water billing) for the service totalled 55,289 m³ of water; a 1% increase from the previous year and a 9% increase from the five-year rolling average.

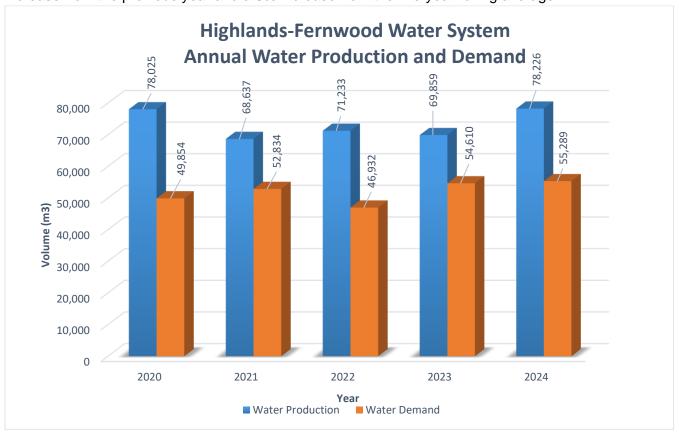


Figure 2: Fernwood and Highland Water Service Annual Water Production and Demand

Water production by month for the past five years is shown in Figure 3. As with most water systems, water consumption follows a typical diurnal pattern where the monthly total flow peaks during the summer months. The 2024 monthly flow information is indicative of this diurnal pattern. A slight increase in production above previous averages has been noted effective as of July 2024.

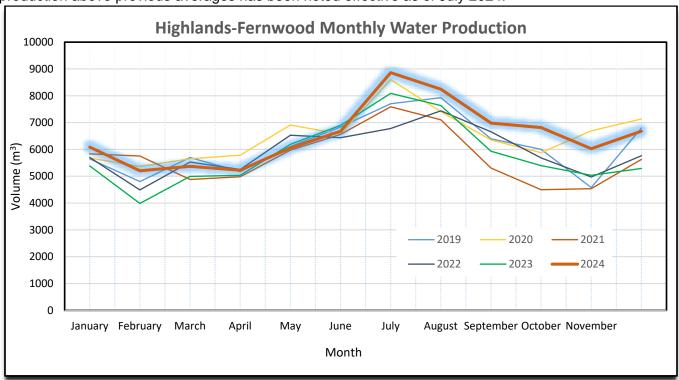


Figure 3: Fernwood and Highland Water Service Monthly Water Production

The Fernwood and Highland Water System is fully metered, and water meters are read quarterly. Water meters are manually read on a quarterly basis and the data enables water production and consumption to be compared to estimate leakage losses in the distribution system. The difference between water produced and water demand (total metered consumption) is called non-revenue water and includes distribution leaks, meter error, and unmetered uses such as fire hydrant usage, distribution system maintenance, and process water for the treatment plant. Non-revenue water is approximately 29%. This represents a 7% increase from the previous year.

WATER QUALITY

In 2024, the analytical results (biological, chemical and physical parameters) of water samples collected from the Highland/Fernwood Water Systems indicated that the drinking water supplied to the customers was generally of good quality. The Highland distribution system experienced two water main breaks that led to partial Boil Water Advisories (BWA): October 12 – 13, and October 28 - 31. Also, St. Mary Lake experienced an almost continuous cyanobacteria bloom (except in March and April) with particularly high activity in July and August. Various species of potentially toxin producing cyanobacteria were responsible for these blooms but all samples taken from the intake of the Highland/Fernwood Water System tested negative for microcystin, a cyanotoxin frequently associated with such blooms. During these algal events, the Highland/Fernwood water treatment plant was able to produce safe and good quality drinking water.

The data below provides a summary of the water quality characteristics in 2024:

Raw Water:

- The raw water exhibited typically low concentrations of total coliform and *E.coli* bacteria throughout the cold weather periods, but much higher spikes during the summer.
- No parasitic Cryptosporidium oocysts or Giardia cysts were detected.
- The analyses of raw water samples indicated moderately low concentrations of iron and but elevated concentrations of manganese in the fall (November).
- The raw water was slightly hard (median hardness 39.2 mg/L CaCO₃).
- The raw water turbidity (cloudiness) was often below or near 1 NTU but occasionally higher during summer and fall months (July: up to 3.6 NTU, September: up to 3.5 NTU). These episodes of high raw water turbidity were the result of strong cyanobacteria blooms.
- A median annual total organic carbon (TOC) concentration of 4.1 mg/L confirms the mesotrophic (semi-productive) to eutrophic (productive) status of St. Mary Lake.
- Cyanobacteria blooms of various species occurred almost all year long in St Mary Lake. Despite
 the blooms of potentially toxin producing cyanobacteria species, no cyanotoxins (microcystin)
 were detected in the raw water entering the treatment plant.

Treated Water:

- The treated water was safe to drink outside the period with a BWA; no indicator bacteria were detected in any Fernwood Distribution System or Highland System sample throughout the year.
- The treated water turbidity was typically well below the turbidity limit of 1.0 NTU throughout the
 year in most parts of the system. However, a few standpipes in the Fernwood and the Highland
 systems occasionally registered elevated turbidity. These low flow locations need to be flushed
 regularly to remove accumulated pipe sediments.
- The levels of regulated disinfection by-products trihalomethanes (THM) were well below the limits in the GCDWQ (100 μg/L) across the Fernwood and the Highland Distribution System. Haloacetic acids (HAA) were not tested for in 2024. As long as THM concentrations are low, HAA tests are only performed every 5 years to verify baseline conditions. The last HAA tests were done in 2021.
- The treated water total organic carbon concentration (TOC) in both distribution systems was similar to previous years, ranging from 1.8 to 2.1 mg/L in the Fernwood Distribution System, and 1.8 to 2.0 mg/L in the Highland Distribution System. There is currently no guideline in the GCDWQ for TOC levels, however the USEPA suggests a treated water TOC concentration of < 2 mg/L as confirmation of effective treatment and disinfection by-product control.
- Iron and/or manganese concentrations, which can lead to water discolouration if present in elevated concentrations, have been typically below the aesthetic guideline limits. The Fernwood System experienced elevated manganese concentrations twice in August and once in November, and the Highland System elevated iron concentrations once in November. Typically, these exceedances in the distribution systems are a result of accumulation over time in low flow locations. Operators try to mitigate this by periodic spot flushing.

Table 1, 2 and 3 below provide a summary of the 2024 raw and treated water test results.

Water Quality data collected from these two distribution systems can be reviewed on the following CRD website: https://www.crd.bc.ca/about/data/drinking-water-quality-reports

OPERATIONAL HIGHLIGHTS

The following is a summary of the major operational issues that were addressed by CRD Integrated Water Services staff in 2024:

- Emergency response to water system breaks at:
 - 144 Maliview Dr water main break, BWA issued
 - 200 Ensilwood Rd service line repair, BWA issued
 - 172 Malview Dr service line repair
 - 930 Walkerhook Rd service line repair
 - 299 Maliview Rd service line repair
 - 321 Maliview Rd service line repair
 - 231 Fernwood Rd service line repair
- 1060 Walkerhook Rd service line repairWater Treatment Plant:
 - H/F DAF saturator and saturator pump service
 - Fernwood raw water pump #1 seal maintenance
 - Fernwood raw water pump #2 replacement maintenance (ongoing into 2025)
 - DAF solenoid 311 reprogramming
- Distribution System:
 - Highlands Middle Reservoir maintenance and drone inspection
 - Fernwood Reservoir #1 maintenance
 - Whims Rd hydrant service
 - Maliview hydrant service
 - Highlands HF002 hydrant repair
 - Ensilwood hydrant service
 - 1060 Walkerhook standpipe repair
 - Fernwood Reservoir standpipe repair
 - Fernwood Reservoir drain valve repair
 - Water main valve repair (930 Walkerhook/320 Maliview Dr)

CAPITAL IMPROVEMENTS

Fernwood and Highland Water Capital Projects

The following is a summary of the major capital improvements, including year-end spending for 2024:

<u>Water Intake and Screen (CE.677.7501)</u>: Fernwood water intake has not been performing as it should. Investigation and design of a new intake were commenced by a consultant engaged by the CRD. Detailed design is essentially complete with construction scheduled to take place in 2024 and be complete in early 2025.

Project	Spending
Budget	\$227,000
Project Management	(\$37,822)
Designs	(\$45,411)
Construction	(\$68,623)
Balance Remaining	\$75,144

<u>Safe Work Procedures (CE.699.4501)</u>: The work scope includes reviewing and developing safe work procedures for operational and maintenance tasks. Ongoing as capital improvements necessitate.

Project	Spending
Budget	\$17,000
Project Management	(\$444)
Contract	(\$3,493)

Supplies and Materials	(\$209)
Balance Remaining	\$12,854

<u>Highland Upper Reservoir (CE.360.4655)</u>: The Highland Upper Reservoir requires replacement. Investigation and design of a new reservoir is in progress by a consultant engaged by the CRD.

Project	Spending
Budget	\$123,176
Project Management	(\$23,128)
Designs	(\$77,556)
Balance Remaining	\$22,492

<u>Power Generation Equipment - Design (CE.735.4501)</u>: Preliminary and detailed design for back-up power generation for the service. Additional project management time was required to coordinate the design of this project with the project to replace the Upper Reservoir (CE.360.4655). A staff report was issued to the Commission to approve a revision to the Capital Plan.

Project	Spending
Budget	\$59,000
Project Management	(\$14,687)
Designs	(\$38,861)
Balance Remaining	\$5,452

<u>Safety Improvement (CE.677.4601)</u>: Design and install eyewash, safe access platform, roof access hatch.

Project	Spending
Budget	\$40,000
Project Management	(\$12,006)
Installation	(\$7,019)
Balance Remaining	\$20,975

<u>Spares, Chlorine and Coagulant Pumps (CE.677.4602)</u>: Purchase of critical spares to have on hand for emergency repairs.

Project	Spending
Budget	\$12,000
Project Management	(\$164)
Equipment Purchase	(\$0)
Balance Remaining	\$11,836

Referendum for Borrowing (CE.677.4501): Electoral assent process for projects with debt funding.

Project	Spending
Budget	\$40,000
Project Management	(\$27)
Balance Remaining	\$39,973

<u>Public Engagement (CE.677.4502)</u>: Public engagement process for projects with debt funding.

Project	Spending
Budget	\$10,000
Project Management	(\$54)
Balance Remaining	\$9,946

Reservoir #1, Repair Roof Top Railing (CE.677.5101): Repair or replacement of roof top railing on Reservoir #1 to correct EH & S hazard.

Project	Spending
Budget	\$15,500
Project Management	(\$0)
Design	(\$0)
Balance Remaining	\$15,500

<u>Safety Chain Replacement at Water Treatment Plant (CE.677.4603)</u>: Replacement of safety chain to correct EH & S hazard.

Project	Spending
Budget	\$13,000
Project Management	(\$2,131)
Design and Construction	(\$0)
Balance Remaining	\$10,869

2024 FINANCIAL REPORT

Please refer to the attached 2024 Statement of Operations and Reserve Balances.

Revenue includes parcel taxes (Transfers from Government), fixed user fees (User Charges), water sales (Sale-Water), interest on savings (Interest earnings), transfers from Operating Reserve Fund, and miscellaneous revenue such as late payment charges (Other revenue).

Expenses include all costs of providing the service. General Government Services includes budget preparation, financial management, utility billing and risk management services. CRD Labour and Operating Costs include CRD staff time as well as the costs of equipment, tools, and vehicles. Debt servicing costs are interest and principal payments on long-term debt. Other Expenses include all other costs to administer and operate the water system, including insurance, water testing and electricity.

The difference between Revenue and Expenses is reported as Net revenue (expenses). Any transfers to or from capital or reserve funds for the service (Transfers to own funds) are deducted from this amount and it is then added to any surplus or deficit carry forward from the prior year, yielding an Accumulated Surplus (or deficit). In alignment with Local Government Act Section 374 (11), any deficit must be carried forward and included in the next year's financial plan.

WATER SYSTEM PROBLEMS - WHO TO CALL:

To report any event or to leave a message regarding the Highland/Fernwood Water System, call either:

CRD water system *emergency* call centre: 1-855-822-4426 (toll free)

1-250-474-9630 (toll)

CRD water system *general enquiries* (toll free): 1-800-663-4425

When phoning with respect to an emergency, please specify to the operator, the service area in which the emergency has occurred.

Submitted by:	Jason Dales, Senior Manager B.Sc, WD IV, Infrastructure Operations
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Appendix A: 2024 Statement of Operations and Reserve Balances

For questions related to this Annual Report, please email saltspring@crd.bc.ca

PARAMETER		20	24 ANALYTI	CAL RESUL	TS	CANADIAN GUIDELINES	2014 -	2023 ANA	LYTICAL R	ESULTS
Parameter	Units of	Annual	Samples	Ra	nge	< = Less than or equal to		Samples	Ra	nge
Name	Measure	Median	Analyzed	Minimum	Maximum	<u>< = Less than or equal to</u>	Median	Analyzed	Minimum	Maximur
means Not Detected by analytical m	nethod used									
		Phy	/sical/Bid	ological	Paramet	ers				
		-								
Carbon, Total Organic	mg/L as C	4.1	4	3.6	5.0		3.90	31	2.80	5.67
Colour, True	TCU	12.0	16	7.0	22.0		6.65	130	3.00	25.00
Hardness as CaCO₃	mg/L	39.2	5	36.2	39.8	No Guideline Required	38.65	34	28.10	46.10
pH	pH units		Not teste	d in 2024	•	7.0 - 10.5 AO	7.70	21	7.18	8.90
Turbidity	NTU	1.60	17	0.55	3.60		1.19	188	0.17	19.00
Water Temperature	°C	16.00	28	6.00	23.00	15°C AO	15.00	191	5.00	25.00
			•		•					
			Microb	ial Parar	neters					
Indicator Bacter	ia									
					1	1				
Coliform, Total	CFU/100 mL	170	18	< 1	2100		120	186	<1	6000
E. coli	CFU/100 mL	<1	18	< 1	8		< 1	187	<1	180
Hetero. Plate Count, 7 day	CFU/1 mL		Last analyz						zed in 201	
Algal Toxins										
Microcystin (Abraxis)	ug/L		Not teste	d in 2024		1.5	<1	99	<1	<1
Cryptosporidium, Total oocysts	oocysts/100 L	<1	2	<1	<1	Zero detection desirable	<1	20	<1	1
Giardia, Total cysts	cysts/100 L	<1	2	<1	<1	Zero detection desirable	< 1	20	< 1	1.2
				Metals						
Aluminum	ug/L as Al	< 3	5	< 3	10.6	2900 MAC / 100 OG	8	35	< 3	41.8
Antimony	ug/L as Sb	< 0.5	5	< 0.5	< 0.5	6 MAC	< 0.5	35	0.05	< 10
Arsenic	ug/L as As	0.45	5	0.38	0.62	10 MAC	< 0.5	35	0.32	0.85
Barium	ug/L as Ba	13	5	12	13.9	100 MAC	12	35	< 1	15.1
Beryllium	ug/L as Be	< 0.1	5	< 0.1	< 0.1		< 0.1	35	< 0.01	< 3
Bismuth	ug/L as Bi	< 1	5	< 1	< 1		< 1	33	< 0.005	< 1
Boron	ug/L as B	< 50	5	< 50	73	5000 MAC	< 50	35	43	343
Cadmium	ug/L as Cd	< 0.01	5	< 0.01	< 0.01	7 MAC	< 0.01	35	< 0.005	0.1
Calcium	mg/L as Ca	9.98	5	9.47	10.3	No Guideline Required	10	35	8.51	12.3
Chromium	ug/L as Cr	< 1	5	< 1	< 1	50 MAC	< 1	35	< 0.1	< 10
Cobalt	ug/L as Co	< 0.2	5	< 0.2	< 0.2		< 0.2	35	0.0264	< 20
Copper	ug/L as Cu	0.97	5	0.64	1.25	2000 MAC / ≤ 1000 AO	1	35	< 0.5	< 8
Iron	ug/L as Fe	16.3	5	9.2	87.9	≤ 100 AO	21	35	0.1	176
Lead	ug/L as Pb	< 0.2	5	< 0.2	< 0.2	5 MAC	< 0.2	35	0.0954	0.5
Lithium	ug/L as Li	8.2	5	6.8	8.2		8	21	6.4	11.5
Magnesium	mg/L as Mg	3.43	5	3.03	3.46	No Guideline Required	3	35	1.09	4.47
Manganese	ug/L as Mn	23.4	5	7.5	101	120 MAC / ≤ 20 AO	23	35	< 4	110
Molybdenum	ug/L as Mo	<1	5	<1	<1		< 1	35	0.059	< 20
Nickel	ug/L as Ni	<1	5	< 1	<1		< 1	35	0.298	< 50
Potassium	mg/L as K ug/L as Se	0.885	5	0.861	0.913	50 MA C	1	35	0.305	0.963
Selenium Silicon	ug/L as Si	< 0.1 1920	5 5	< 0.1 688	0.14 2410	50 MAC	< 0.1 1660	35 35	< 0.04 345	0.5 6780
Silver	ug/L as Si ug/L as Ag	< 0.02	5	< 0.02	< 0.02	No Guideline Required	< 0.02	35	< 0.005	< 10
Sodium	mg/L as Ag	19.1	5	18.1	20.6	≤ 200 AO	20	35	12.1	87.3
Strontium	ug/L as Na	97.9	5	93.9	101	7000 MAC	95	35	36.7	116
Sulphur	mg/L as S	4.3	5	3.9	4.8	, ooo ivi-to	4	33	< 3	8.7
Tin	ug/L as Sn	< 5	5	< 5	< 5		< 5	35	< 0.2	< 20
Titanium	ug/L as Ti	<5	5	< 5	< 5		< 5	35	0.82	< 10
Thallium	ug/L as TI	< 0.01	5	< 0.01	< 0.01		< 0.01	33	< 0.002	< 0.05
Uranium	ug/L as U	< 0.1	5	< 0.1	< 0.1	20 MAC	< 0.1	33	0.0026	< 0.1
Vanadium	ug/L as V	< 5	5	< 5	< 5	1	< 5	35	< 0.2	< 10
Zinc	ug/L as Zn	< 5	5	< 5	< 5	≤ 5000 AO	< 5	35	1.98	136
Zirconium	ug/L as Zr	< 0.1	5	< 0.1	< 0.1		< 0.1	33	< 0.1	< 0.5

Parameter	Treated Water T			ICAL RESUL		CANADIAN GUIDELINES	2014 -	2023 ANAI	YTICAL R	SULTS		
	Units of	Annual	Samples	Rar	nge	≤ = Less than or equal to		Samples	Ra	nge		
Name	Measure	Median	Analyzed	Minimum	Maximum	<u>< = Less than or equal to</u>	Median	Analyzed	Minimum	Maximu		
ID means Not Detected by analytic	al method used		Discor	is al Dani								
			Phys	sical Para	meters			1				
Hardness as CaCO ₃	mg/L	39.1	13	35.5	42.4		38.9	78	34.1	49.1		
Carbon, Total Organic	mg/L as C	2.0	8	1.8	2.1		1.8	63	< 0.3	3.0		
Colour, True	TCU	2.5	32	< 2	8.0		< 2	103	1.8	5.0		
pH	pH units		Not teste	ed in 2024			7.0	19	6.55	8.1		
Turbidity	NTU	0.20	35	0.1	2.9	1 MAC and ≤ 5 AO	0.2	378	0.08	10.5		
Water Temperature	°C	14.0	152	5.0	24.0	15°C AO	14.0	639	4	26.0		
						•		•				
Indicator Bacte	o rio		Micro	bial Para	ameters							
indicator Bacti	эпа											
Coliform, Total	CFU/100 mL	< 1	70	< 1	< 1	0 MAC	< 1	516	<1	9.0		
E. coli	CFU/100 mL	< 1	70	< 1	< 1	0 MAC	< 1	516	<1	< 2		
Hetero. Plate Count, 7 day	CFU/1 mL		Not teste	ed in 2024		No Guideline Required	< 10	73	<1	800.0		
Algal Tayin												
Algal Toxin	S											
Microcystin (Abraxis)	ug/L		Not teste	ed in 2024		1.5 MAC	<1	41	<1	<1		
Anatoxin A	ug/L			zed in 2013				Last analy	zed in 2013	3		
Cylindrospermopsin	ug/L			zed in 2013					zed in 2013			
Microcystin-RR	ug/L		,	zed in 2013				,	zed in 2013			
Microcystin-YR	ug/L		,	zed in 2013					zed in 2013			
Microcystin-LR	ug/L			zed in 2013		1.5 MAC			zed in 2013			
Microcystin-LA	ug/L			zed in 2013					zed in 2013			
Nodularin	ug/L		Last analy	zed in 2013				Last analy	zed in 2013	in 2013		
				Disinfecta	ants							
Disinfectant	s											
Chlorine, Free Residual	mg/L as Cl2	0.98	159	0.22	4.5	No Guideline Required	1.2	1234	0.2	2.7		
Chlorine, Tree Residual Chlorine, Total Residual	mg/L as Cl ₂	2.13	1	2.13	2.13	No Guideline Required	1.4	854	0.29	3.5		
Gilorine, Total Nesidual	Hig/L as Oi2	2.13	'	2.13	2.10	140 Galdeline Negali ed	17	054	0.23	5.5		
			Disinfe	ction By-	-Produc	ts						
Trihalomethanes	(THMs)			·								
Bromodichloromethane	ug/L	13	4	9.8	14		12.5	40	6.94	20.6		
Bromoform	ug/L	< 1	4	< 1	< 1		< 1	40	< 0.1	< 1		
Chloroform	ug/L	23	4	17.0	29		22.5	41	9.34	45		
Chlorodibromomethane	ug/L	4.5	4	3.5	4.9		4.48	40	2.19	7.1		
Total Trihalomethanes	ug/L	40.5	4	31.0	48	100 MAC	40	39	19.4	73		
Haloacetic Acids	(HAAs)											
HAA5	ug/L		Not teste	ed in 2023		80 MAC	15.8	10	< 0.1	26		
				Metals	•							
				Metals				ı				
Aluminum	ug/L as Al	9.1	13	3.1	363.0	2900 MAC / 100 OG	9.65	78	3.2	389		
Aluminum Antimony	ug/L as Sb	< 0.5	13	3.1 < 0.5	363.0 < 0.5	7 MAC	< 0.5	78	< 0.5	< 0.5		
Antimony Arsenic	ug/L as Sb ug/L as As	< 0.5 0.33	13 13	3.1 < 0.5 0.3	363.0 < 0.5 0.7	7 MAC 10 MAC	< 0.5 0.31	78 78	< 0.5 0.2	< 0.5 0.76		
Antimony Arsenic Barium	ug/L as Sb ug/L as As ug/L as Ba	< 0.5 0.33 12.2	13 13 13	3.1 < 0.5 0.3 10.5	363.0 < 0.5 0.7 14.3	7 MAC	< 0.5 0.31 12.1	78 78 78	< 0.5 0.2 9.9	< 0.5 0.76 16.4		
Antimony Arsenic Barium Beryllium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be	< 0.5 0.33 12.2 < 0.1	13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1	363.0 < 0.5 0.7 14.3 < 0.1	7 MAC 10 MAC	< 0.5 0.31 12.1 < 0.1	78 78 78 78	< 0.5 0.2 9.9 < 0.1	< 0.5 0.76 16.4 < 0.1		
Antimony Arsenic Barium Beryllium Bismuth	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi	< 0.5 0.33 12.2 < 0.1 < 1	13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1	7 MAC 10 MAC 100 MAC	< 0.5 0.31 12.1 < 0.1 < 1	78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1	< 0.5 0.76 16.4 < 0.1 < 1		
Antimony Arsenic Barium Beryllium Bismuth Boron	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as B	< 0.5 0.33 12.2 < 0.1 < 1 < 50	13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0	7 MAC 10 MAC 100 MAC 5000 MAC	< 0.5 0.31 12.1 < 0.1 < 1 < 50	78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50	< 0.5 0.76 16.4 < 0.1 < 1 53		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as B ug/L as Cd	< 0.5 0.33 12.2 < 0.1 < 1 < 50 < 0.01	13 13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01	7 MAC 10 MAC 100 MAC 5000 MAC 7 MAC	< 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01	78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as B ug/L as Cd mg/L as Cd	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3	13 13 13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01	7 MAC 10 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required	< 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01 10.25	78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Cd mg/L as Cd	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1	13 13 13 13 13 13 13 13 13	3.1 <0.5 0.3 10.5 <0.1 <1 <50 <0.01 9.3 <1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1	7 MAC 10 MAC 100 MAC 5000 MAC 7 MAC	<0.5 0.31 12.1 <0.1 <1 <50 <0.01 10.25 <1	78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt	ug/L as Sb ug/L as As ug/L as Ba ug/L as Bi ug/L as Bi ug/L as B ug/L as Cd mg/L as Ca ug/L as Cr ug/L as Co	<0.5 0.33 12.2 <0.1 <1 <50 10.3 <10.3 <1 <0.2	13 13 13 13 13 13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2	7 MAC 10 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC	<0.5 0.31 12.1 <0.1 <1 <50 <0.01 10.25 <1 <0.2	78 78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper	ug/L as Sb ug/L as As ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Co ug/L as Co	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87	13 13 13 13 13 13 13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO	<0.5 0.31 12.1 <0.1 <1 <50 <0.01 10.25 <1 <0.2 4.635	78 78 78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper	ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Cu	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7	13 13 13 13 13 13 13 13 13 13 13 13 13	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO	<0.5 0.31 12.1 <0.1 <10.1 <50 <0.01 10.25 <1 <0.2 4.635 25.9	78 78 78 78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 0.93 83.2 770		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd ug/L as Cr ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO	<0.5 0.31 12.1 <0.1 <1 <50 <0.01 10.25 <1 <0.2 4.635 25.9 0.4	78 78 78 78 78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Cu ug/L as Cu ug/L as Cu	<0.5 0.33 12.2 <0.1 <10 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	< 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd ug/L as Cr ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO	<0.5 0.31 12.1 <0.1 <1 <50 <0.01 10.25 <1 <0.2 4.635 25.9 0.4	78 78 78 78 78 78 78 78 78 78 78 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Cu ug/L as Cu	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required	< 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7 3.7		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Co ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as Li mg/L as Mg ug/L as Mn	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 	78 78 78 78 78 78 78 78 78 78 78 78 78 82 40 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd mg/L as Cr ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as Mg ug/L as Mg	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required	 < 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01 10.25 < 1 < 0.2 < 4.635 25.9 0.4 7.3 3.15 2.35 < 1 	78 78 78 78 78 78 78 78 78 78 78 78 78 82 40 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7 3.7 150 <1 <1 <1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd mg/L as Co ug/L as Fe ug/L as Ho ug/L as Mg ug/L as Mn ug/L as Mo	<0.5 0.33 12.2 <0.1 <10.5 <0.01 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 <1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required	<pre>< 0.5 0.31 12.1 < 0.1 < 1.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1</pre>	78 78 78 78 78 78 78 78 78 78 78 78 78 82 40 78 78	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 < 1	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7 3.7 150 <1 <1 <1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Co ug/L as Co ug/L as Co ug/L as Cu ug/L as Fe ug/L as Pb ug/L as Mg ug/L as Mg ug/L as Mo ug/L as Mo ug/L as Mo	<0.5 0.33 12.2 <0.1 <10.5 0.01 <50 <0.01 10.3 <1 <0.2 4.87 27.7 3.3 8.1 3.27 3.7 <1 0.879	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 0.8	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 0.9	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 < 0.8075 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7 3.7 150 <1 0.879 <0.1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Siliver	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd ug/L as Co ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Ki ug/L as K	<0.5 0.33 12.2 <0.1 <10.3 <10.3 <10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 0.2 < 0.4 < 5 < 0.0 <	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 < 0.9 < 0.1 < 1 < 0.9 < 0.0 <	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 0.8075 < 0.1 1620 < 0.02 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02	< 0.5 0.76 16.4 < 0.1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 37000 0.02		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Cu ug/L as Fe ug/L as Ho ug/L as Mg ug/L as Mn ug/L as Mn ug/L as Ni mg/L as Si ug/L as Se ug/L as Se ug/L as Si ug/L as Ag mg/L as Na	<0.5 0.33 12.2 <0.1 <10.5 0.01 <10.3 <10.3 <10.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 0.8 < 0.1 < 0.2	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 0.9 < 0.1 2340.0 < 0.0 < 0.0 < 0.0 25.2	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 < 0.8075 < 0.1 1620 < 0.02 < 22 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02 19.3	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 37000 0.02 25.4		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd mg/L as Ca ug/L as Co ug/L as Co ug/L as Co ug/L as Cu ug/L as Fe ug/L as Pb ug/L as Mg ug/L as Mh ug/L as Mo ug/L as K ug/L as Se ug/L as Si ug/L as Se ug/L as Si ug/L as Ag	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5 97.6	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 0.2 0.4 < 5 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.01 2340.0 < 0.02 25.2 103.0	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 0.8075 < 0.1 1620 < 0.02 22 94.75 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.002 19.3 85.9	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 37000 0.02 25.4 113		
Antimony Arsenic Barium Beryllium Bis muth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Sulphur	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Co ug/L as Cr ug/L as Co ug/L as Co ug/L as Co ug/L as Co ug/L as Si ug/L as Fe ug/L as Pb ug/L as Mg ug/L as Mn ug/L as Mo ug/L as Si ug/L as Se ug/L as Si ug/L as Si ug/L as Na ug/L as Si ug/L as Na ug/L as Na	<0.5 0.33 12.2 <0.1 <1 <50 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 0.2 2.0 < 0.0 3.3 < 1 < 0.2 6.6 3.8 < 1 < 1 < 0.2 6.6 3.8 < 1 < 0.2 6.6 3.8 < 1 < 0.2 6.6 3.8 < 1 < 0.0 < 0.0 < 0.0 3.8 < 0.0 < 0.0	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.1 2340.0 < 0.02 25.2 103.0 5.1	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC	 < 0.5 0.31 12.1 < 0.1 < 1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 < 5.9 0.4 7.3 3.15 < 1 < 1 0.8075 < 0.1 1620 < 0.02 22 94.75 4.3 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	 < 0.5 0.2 9.9 < 0.1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.02 19.3 85.9 3.2 	< 0.5 0.76 16.4 < 0.1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 3700 0.02 25.4 113 5.9		
Antimony Arsenic Barium Beryllium Bis muth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Sulphur Tin	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Be ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd mg/L as Co ug/L as Fe ug/L as Fb ug/L as Mg ug/L as Mo ug/L as Mo ug/L as Si ug/L as Si ug/L as Si ug/L as Sr mg/L as Sr mg/L as Sr	<0.5 0.33 12.2 <0.1 <10.3 <10.3 <10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9 <5	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 0.2 2.8 < 1 < 1 < 1 < 0.2 6.6 2.8 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.1 2340.0 < 0.02 25.2 103.0 < 0.02	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 < 0.4 7.3 3.15 < 3.35 < 1 < 1 0.8075 < 0.1 1620 < 0.02 22 94.75 4.3 < 5 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02 19.3 85.9 3.2 < 5	< 0.5 0.76 16.4 < 0.1 53 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 3700 0.02 25.4 113 5.9 < 5		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd mg/L as Co ug/L as Fo ug/L as Fo ug/L as Mg ug/L as Mn ug/L as Mn ug/L as Mn ug/L as Ni mg/L as Si ug/L as Si ug/L as Sr mg/L as Sr mg/L as Sr ug/L as Sr	<0.5 0.33 12.2 <0.1 <10.3 <10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9 <55 <55	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 0.8 < 0.1 < 1 < 0.2 < 0.2 6.6 2.8 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 0.9 < 0.1 2340.0 < 0.0 25.2 103.0 < 0.0 < 0.5 < 0.5	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 0.8075 < 0.1 1620 < 0.02 22 94.75 4.3 < 5 < 5 < 5 < 5 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02 19.3 85.9 3.2 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5	<0.5 0.76 16.4 <0.1 <1 53 0.016 15.3 <1 0.93 83.2 770 78.1 11.7 3.7 150 <0.1 37002 25.4 113 5.9 <55 <5		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Fe ug/L as Pb ug/L as Mg ug/L as Mg ug/L as Mh ug/L as Ni mg/L as Ni mg/L as Se ug/L as Se ug/L as Si ug/L as Sa ug/L as Sr mg/L as Na ug/L as Sr mg/L as Sa ug/L as Sr mg/L as Sn ug/L as Sr	<0.5 0.33 12.2 <0.1 <10.2 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9 <55 <55 <0.01	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 1 < 1 < 0.2 6.6 3.8 < 1 < 1 < 1 < 0.2 6.6 < 0.2 < 0.2 < 0.3 < 1 < 1 < 1 < 0.2 < 0.2 < 0.2 < 0.3 < 1 < 0.2 < 0.3 < 0.3 < 1 < 0.4 < 0.5 < 0.5 < 0.5 < 0.0 < 0.	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.1 2340.0 < 0.02 25.2 103.0 5.1 < 5 0.0	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC / ≤ 20 AO	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 < 0.8075 < 0.1 1620 < 0.02 294.75 4.3 < 5 < 5 < 0.01 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02 19.3 85.9 3.2 < 5 < 0.01	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 3700 0.002 25.4 113 5.9 < 5 0.042		
Antimony Arsenic Barium Beryllium Bis muth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Thallium Uranium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Co ug/L as Si ug/L as Pb ug/L as Pb ug/L as Mg ug/L as Mn ug/L as Mn ug/L as Si	<0.5 0.33 12.2 <0.1 <10.2 <0.1 <10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9 <5 <0.01 <0.01 <0.01	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 0.0 20.2 6.6 2.8 < 1 < 1 < 0.0 < 0.0	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.1 2340.0 < 0.02 25.2 103.0 5.1 < 5 < 0.0 < 0.1	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC	<pre>< 0.5 0.31 12.1 < 12.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 < 1 0.8075 < 0.01 1620 < 0.02 22 24 94.75 4.3 < 5 < 5 < 0.01 < 0.01 < 0.01</pre>	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5	< 0.5 0.76 16.4 < 0.1 153 0.016 15.3 < 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 3700 0.02 25.4 113 5.9 < 5 < 5 < 5 0.042 < 0.1		
Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium	ug/L as Sb ug/L as As ug/L as Ba ug/L as Ba ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Ca ug/L as Co ug/L as Fe ug/L as Pb ug/L as Mg ug/L as Mg ug/L as Mh ug/L as Ni mg/L as Ni mg/L as Se ug/L as Se ug/L as Si ug/L as Sa ug/L as Sr mg/L as Na ug/L as Sr mg/L as Sa ug/L as Sr mg/L as Sn ug/L as Sr	<0.5 0.33 12.2 <0.1 <10.2 <0.01 10.3 <1 <0.2 4.87 27.7 0.33 8.1 3.27 3.7 <1 0.879 <0.1 1930 <0.02 23.5 97.6 3.9 <55 <55 <0.01	13 13 13 13 13 13 13 13 13 13 13 13 13 1	3.1 < 0.5 0.3 10.5 < 0.1 < 1 < 50 < 0.01 9.3 < 1 < 0.2 0.4 < 5 < 0.2 6.6 2.8 < 1 < 1 < 1 < 1 < 1 < 0.2 6.6 3.8 < 1 < 1 < 1 < 0.2 6.6 < 0.2 < 0.2 < 0.3 < 1 < 1 < 1 < 0.2 < 0.2 < 0.2 < 0.3 < 1 < 0.2 < 0.3 < 0.3 < 1 < 0.4 < 0.5 < 0.5 < 0.5 < 0.0 < 0.	363.0 < 0.5 0.7 14.3 < 0.1 < 1 68.0 < 0.01 11.7 < 1 < 0.2 24.1 78.3 1.7 11.7 3.5 270.0 < 1 < 1 0.9 < 0.1 2340.0 < 0.02 25.2 103.0 5.1 < 5 0.0	7 MAC 10 MAC 100 MAC 100 MAC 5000 MAC 7 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC No Guideline Required 120 MAC / ≤ 20 AO	 < 0.5 0.31 12.1 < 0.1 < 50 < 0.01 10.25 < 1 < 0.2 4.635 25.9 0.4 7.3 3.15 2.35 < 1 < 1 < 0.8075 < 0.1 1620 < 0.02 294.75 4.3 < 5 < 5 < 0.01 	78 78 78 78 78 78 78 78 78 78 78 78 78 7	< 0.5 0.2 9.9 < 0.1 < 1 < 50 < 0.01 8.57 < 1 < 0.2 0.39 < 5 < 0.2 6.5 2.52 < 1 < 1 0.693 < 0.1 322 < 0.02 19.3 85.9 3.2 < 5 < 0.01	< 0.5 0.76 16.4 < 0.1 < 1 53 0.016 15.3 < 1 1 0.93 83.2 770 78.1 11.7 3.7 150 < 1 0.879 < 0.1 3700 0.002 25.4 113 5.9 < 5 0.042		

Table 3: 2024 Summary of		1						0000 ****	L VOTIC * : =	FOLE TO
Parameter Parameter		1		ICAL RESUL		CANADIAN GUIDELINES	2014 -		LYTICAL R	
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Minimum	nge Maximum	\leq = Less than or equal to	Median	Samples Analyzed		ange Maxim
D means Not Detected by analytic		Wediaii	Allalyzeu	WIITIITIGITI	IVIANITIUTT		Wedian	AllalyZeu	WIIIIIIIIIIII	IVIANITI
sand has bolooted by analytic			Phys	sical Par	ameters	1			-	
Hardness as CaCO₃	mg/L	50.1	4	46	55		45.9	31	39.8	54.9
Carbon, Total Organic	mg/L as C	1.9	8	1.8	2		1.8	69	< 0.3	4.04
Colour, True	TCU	3.0	32	< 2	11		< 2	103	< 2	4
pH	pH units		1	ed in 2024	1		7.35	4	7.2	8.1
Turbidity	NTU	0.2	53	0.1	10.1	1 MAC and ≤ 5 AO	0.34	350	<0.14	37.8
Water Temperature	.€	12.0	261	4	23	15°C AO	12	1037	4	23.5
			Micro	obial Par	amotore					
Indicator Bact	eria		WIICI	Julai Fai	ameters					
									_	
Coliform, Total	CFU/100 mL	<1	159	< 1	< 1	0 MAC	< 1	1110	0	209
E. coli Hetero. Plate Count 7 day	CFU/100 mL CFU/1 mL	< 1	159	< 1 ed in 2024	< 1	0 MAC No Guideline Required	< 1 30	1110 58	<10	1 310
Hetero. Hate Count 7 day	CFU/T ML		Not teste	ed in 2024		No Guideline Required	30	58	<10	310
Algal Toxin	S									
Minus austin (Abrauia)	/!		Netteete	d in 2024		4.5		44	.4	.4
Microcystin (Abraxis) Anatoxin A	ug/L			ed in 2024 zed in 2013		1.5	<1	41	<1 yzed in 201:	<1
Cylindrospermopsin	ug/L ug/L		,	zed in 2013 zed in 2013					yzed in 201: yzed in 201:	
Microcystin-RR	ug/L	1		zed in 2013 zed in 2013					yzed in 201: yzed in 201:	
Microcystin-YR	ug/L	1	,	zed in 2013 zed in 2013					yzed in 201: yzed in 201:	
Microcystin-LR	ug/L			zed in 2013		1.5 MAC			yzed in 201: yzed in 201:	
Microcystin-LA	ug/L	1		zed in 2013 zed in 2013		1.3 IVAC			yzed in 201: yzed in 201:	
Nodularin	ug/L			zed in 2013					yzed in 201: yzed in 201:	
i wadani i		1	Last analy	_00 III 2010		1		Lastanai	, _ 00 11 201	
				Disinfect	ants					
Disinfectant	S									
Chlorine, Free Residual	mg/L as Cl2	0.71	253	0.2	2.18	No Guideline Required	0.95	2059	0.06	4.2
Chlorine, Total Residual	mg/L as Cl ₂		Not teste	ed in 2024	1	No Guideline Required	1.14	1357	0.18	3.2
		-					-			
			Disinfe	ction By	-Produc	ts				
Trihalomethanes	(THMs)									
Bromodichloromethane	ug/L	15	8	11	21		16	77	<0.1	31.9
Bromoform	ug/L	<1	8	< 1	< 1		< 1	76	< 0.1	4.2
Chloroform	ug/L	30	8	21	54		30	79	15.3	90.2
Chlorodibromomethane	ug/L	5.45	8	3.8	7		5.6	77	<0.1	15.5
Total Trihalomethanes	ug/L	50.5	8	36	82	100 MAC	52.5	74	29.3	128
Haloacetic Acids	`, '									
HAA5	ug/L		Not teste	ed in 2023		80 MAC	19.5	20	9.21	37.7
				Metals	5	T				
Aluminum	ug/L as Al	17.3	4	5.8	21.7	2900 MAC / 100 OG	16.2	31	< 3	58.8
Antimony	ug/L as Sb	< 0.5	4	< 0.5	< 0.5	6 MAC	< 0.5	31	< 0.5	< 0.
Arsenic	ug/L as As	0.34	4	0.3	0.4	10 MAC	0.29	31	0.22	0.48
Barium	ug/L as Ba	10.9	4	10.2	12.8	100 MAC	10.8	31	6.7	14.3
Beryllium	ug/L as Be	< 0.1	4	< 0.1	< 0.1		< 0.1	31	< 0.1	< 0.
Bismuth	ug/L as Bi	< 1	4	< 1	< 1		< 1	31	< 1	< 1
Boron	ug/L as B	< 50	4	< 50	68.0	5000 MAC	< 50	31	< 50	52
Cadmium	ug/L as Cd	< 0.01	4	< 0.01	< 0.01	7 MAC	< 0.01	31	< 0.01	< 0.0
Calcium	mg/L as Ca	17.45	4	15.6	19.9	No Guideline Required	15.8	31	11.1	19.
Chromium	ug/L as Cr	< 1	4	< 1	< 1	50 MAC	< 1	31	< 1	< 1
Cobalt	ug/L as Co	< 0.2	4	< 0.2	< 0.2		< 0.2	31	< 0.2	< 0.
Copper	ug/L as Cu	2.8	4	2.1	3.5	2000 MAC / ≤ 1000 AO	3.65	31	2.0	8.9
Iron	ug/L as Fe	79.3	4	65.0	122.0	≤ 100 AO	96	31	40.9	591
Lead	ug/L as Pb	< 0.2	4	< 0.2	0.2	5 MAC	0.25	31	< 0.2	1.4
Lithium	ug/L as Li	7.7	4	6.4	8.1		7.1	15	6.6	8.2
Magnesium	mg/L as Mg	1.6	4	1.3	1.7	No Guideline Required	1.8	31	1.0	3.2
Manganese	ug/L as Mn	2.5	4	< 1	4.0	120 MAC / ≤ 20 AO	2.4	31	< 1	57.
Molybdenum	ug/L as Mo	<1	4	< 1	< 1		< 1	31	< 1	< 1
Nickel	ug/L as Ni	< 1	4	< 1	< 1		< 1	31	< 1	< 1
Potassium Selenium	mg/L as K	0.86	4	0.8	0.9 < 0.1	50 MAC	0.788	31	0.72	0.90 < 0.
Selenium	ug/L as Se ug/L as Si	< 0.1 2290	4	< 0.1 1550	< 0.1 2860	50 IVIAC	< 0.1 1970	31 31	< 0.1 1190	< 0. 374
Silver	ug/L as Si ug/L as Ag	< 0.02	4	< 0.02	< 0.02	No Guideline Required	< 0.02	31	< 0.02	< 0.0
Sodium	mg/L as Ag	22.2	4	20.7	23.4	≤ 200 AO	21.9	31	19.9	24.
Strontium	ug/L as Na	106	4	99	111	≤ 200 AO 7000 MAC	101	31	89.3	115
Sulphur	mg/L as S	3.8	4	3.3	4.1	, OUU IVIAC	4.5	31	3.3	5.7
Tin	ug/L as Sn	< 5	4	< 5	< 5		4.5 < 5	31	< 5	< 5
Titanium	ug/L as 5n	< 5 < 5	4	< 5 < 5	< 5 < 5		< 5 < 5	31	< 5 < 5	< 5
Thallium	ug/L as Th	< 0.01	4	< 0.01	< 0.01		< 0.01	31	< 0.01	< 0.0
Uranium	ug/L as In ug/L as U	< 0.01	4	< 0.01	< 0.01	20 MAC	< 0.01	31	< 0.01	< 0.0
Vanadium	ug/L as V	< 0.1 < 5	4	< 0.1 < 5	< 0.1	ZU IVIAC	< 0.1 < 5	31	< 0.1	< 0. < 5
Zinc	ug/L as v	< 5 < 5	4	< 5 < 5	6.8	≤ 5000 AO	7.9	31	< 5 < 5	60.
Zinc	ug/L as Zn ug/L as Zn	< 0.1	4	< 0.1	< 0.1	⊇ 3000 AU	< 0.1	31	< 0.1	< 0.5
Zii GOHIUH	I ug/∟ as ∠ii	\ U.1		\ ∪.1	\ ∪.1		\ 0.1	JI	\ ∪.1	_ \ 0