Cedar Lane Water Service

2024 Annual Report



INTRODUCTION

This report provides a summary of the Cedar Lane 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

The Cedar Lane Water Utility is a rural residential community located on Salt Spring Island. The service was created in 1970 and became a CRD service in 2007. The Cedar Lane Water Utility (Figure 1) is comprised of 37 parcels of land connected to the system with 39 single-family equivalents (SFE) as the use on some parcels represents more than one dwelling.

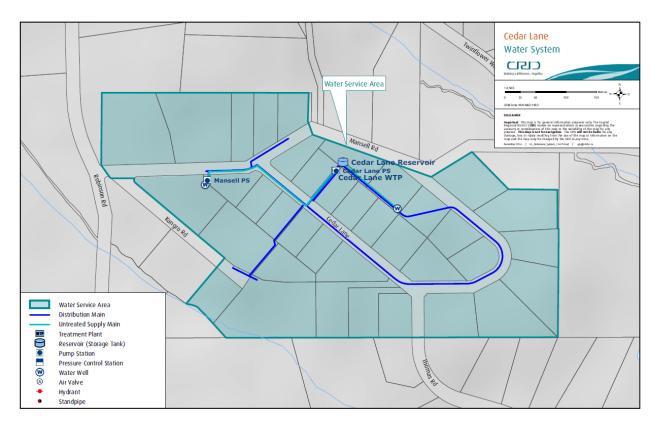


Figure 1: Cedar Lane Water Service

The Cedar Lane water system is primarily comprised of:

- two ground water source wells (#1 and #5)
- a water treatment plant (WTP) that provides primary disinfection with ultraviolet

- (UV) radiation and residual disinfection using sodium hypochlorite
- 1 water reservoir 136 m³ (30,000 lg)
- 1,260 metres of water distribution pipe
- fire hydrant, standpipes, and gate valves
- water service connections complete with water meters

WATER PRODUCTION AND DEMAND

Referring to Figure 2, 3,872cubic meters (m³) of water was extracted (water production) from two groundwater wells in 2024; a 13% increase from the previous year and a 14% increase in the five-year rolling average. Water demand (customer water billing) for the service totalled 3,549 m³ of water; a 9% increase from the previous year and a 9% increase in the five-year rolling average.

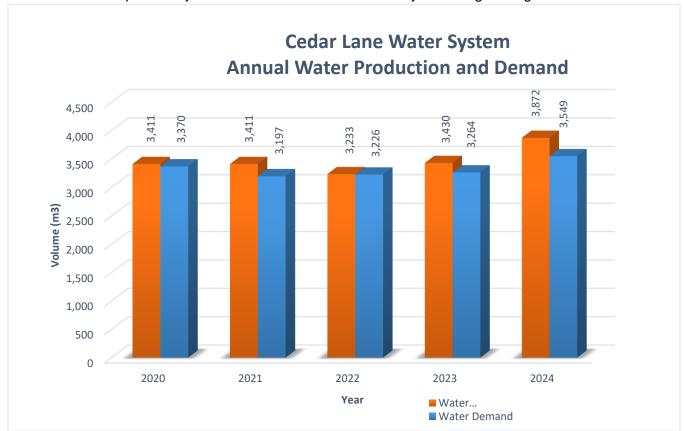


Figure 2: Cedar Lane Water Service Annual Water Production and Demand

Water production by month for the past five years is shown in Figure 3. Water consumption, for most water systems, is greatest during the summer months. Water usage for Cedar Lane is fairly consistent throughout the year likely the result of conservative indoor and outdoor water use.

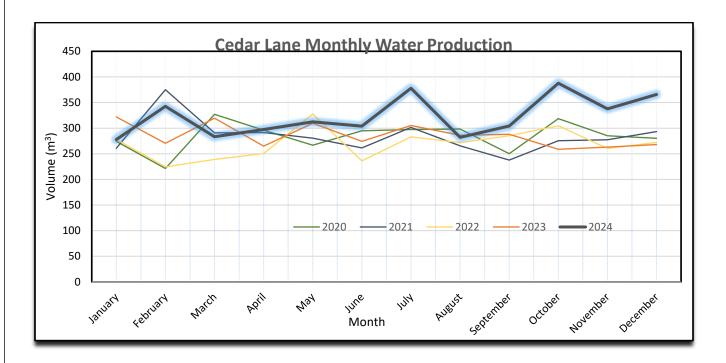


Figure 3: Cedar Lane Water Service Monthly Water Production

The Cedar Lane Water System is fully metered, and water meters are read quarterly. Water meter information enables water production and consumption to be compared in order 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 for 2024 was 9% which is a 4% increase from 2023 although this difference can be directly attributed to specific events that have since been resolved.

WATER QUALITY

The analytical results (biological, chemical and physical parameters) of water samples collected in 2024 from the Cedar Lane Water System indicated that the water was biologically safe to drink. Naturally high manganese concentrations in the well water remain insufficiently treated and regularly exceeded the aesthetic limits in most parts of the system, and frequently, in certain parts of the system, the health limits established in the Guidelines for Canadian Drinking Water Quality (GCDWQ). Particularly, areas immediately downstream from the treatment plant are vulnerable to manganese concentrations in exceedance of the health limit. Iron and manganese precipitates have been a significant nuisance problem in parts of the Cedar Lanewater system and have caused discolouration of the drinking water. In order to meet the newly introduced health limit for manganese concentrations in drinking water, the existing treatment system must be upgraded, or a new water source must be found. A public advisory for manganese exceedance in the drinking water has been in place since July 2021.

Both wells ran very low during the dry summer and fall months. Well #1 exhibited elevated turbidity throughout most of the year whereas Well #5 usually produced water with turbidity levels of 1 NTU or less.

Typical Cedar Lane Water System drinking water quality characteristics for 2024 are summarized as follows:

- Source water from both wells was free of *E. coli* bacteria. One sample in October collected from Well #1 recorded a very low concentration of total coliform bacteria.
- Well #1 registered periods with elevated turbidity throughout the year. The highest raw water turbidity levels were recorded in December (5.3 NTU) and July (3.9 NTU).
- Source water is characterized as hard (134.5 mg/L CaCO₃).
- Both wells exhibited elevated iron and especially high manganese concentrations throughout the year.
- Treated water was bacteriologically safe to drink. No sample tested positive for *E.coli* or total coliform bacteria.
- In March and August, turbidity exceedances in the distribution system at the end of Mansell Road were recorded, indicating an accumulation of particles in the far ends of the piping system. This should be addressed by regular flushing in strategic locations.
- Free chlorine residual concentrations were acceptable and within the desired range (i.e., 0.21 3.57 mg/L)
- Disinfection by-products: annual average trihalomethanes (THM) were well below (35.5 μ g/L) the GCDWQ limit of 100 μ g/L, haloacetic acids (HAA) were not tested in 2024. Typically, when THM concentrations are low, HAA concentrations are also low.
- Metals were typically below all limits except for elevated manganese concentrations. The median annual manganese concentration of 90.3 μg/L in the treated water indicates consistent exceedance of the aesthetic objective in the GCDWQ (20 μg/L) and also frequent exceedances of the health limit 120 μg/L. The health concerning exceedances occurred mostly in parts of the system that are immediately downstream of the treatment plant. A public health advisory has been in place since July 2021. CRD staff are working on mitigation strategies for this issue.
- Between July and September, the water temperature was in exceedance of the aesthetic objective (15°C) in the distribution system.

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

Water Quality data collected from this drinking water system can be reviewed on the 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 during the 2024 operating period:

- Well Pump 1 was replaced
- Pump and Well house exterior painting and door maintenance
- Service line repair 146 Mansel Rd
- Kangro Rd leak response on private property

CAPITAL IMPROVEMENTS

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

<u>Back-up Power Design (CE.735.4503)</u>: The work scope includes a study to provide back-up power to the service.

Project	Spending
Budget	\$5,000
Project Management	(\$0)
Balance Remaining	\$5,000

<u>Manganese Treatment System Design (CE.780.4501):</u> This work scope includes the preliminary and detailed design for a manganese treatment system for the service.

Project	Spending
Budget	\$156,500
Project Management	(\$28,215)
Study and Design	(\$52,097)
Balance Remaining	\$76,188

<u>Public Engagement for Manganese Treatment Project (CE.780.4502):</u> Prepare and conduct public engagement presentations to inform residents of the project to seek their approval.

Project	Spending
Budget	\$5,000
Project Management	(\$0)
Balance Remaining	\$5,000

Referendum or AAP for Manganese Treatment Project (CE.780.4503): Undertake a referendum or AAP to borrow funds to carry out the construction of the manganese treatment project.

Project	Spending
Budget	\$5,000
Project Management	(\$0)
Balance Remaining	\$5,000

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 the 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 Cedar Lane 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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Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

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 RESULT	ΓS	CANADIAN GUIDELINES	20	14 - 2023 AI	NALYTICAL	RESULTS
Parameter Units of		Annual Samples		Range		≤ = Less than or equal to		Samples	Range	
Name	Measure	Median	Analyzed	Minimum	Maximum	<u>< = Less than or equal to</u>	Median	Analyzed	Minimum	Maximu
eans Not Detected by analytical m	ethod used									
		P	hysical	Paramete	ers/Biolo	ogical				
Colour, True	TCU		Last analyz	zed in 2013		≤ 15 AO		Last ar	nalyzed in 20	13
Hardness as CaCO ₃	mg/L	134.5	8	109	173	No Guideline Required	131	74	98.1	188
Conductivity @ 25C	uS/cm	471	6	462	570					
pH	pH Units		Last analyz	zed in 2023		7.0-10.5 AO	7.4	52	6.1	8.6
Total Organic Carbon	mg/L	1.03	8	0.64	1.5	Guideline Archived	1.1	56	< 0.5	2.35
Turbidity	NTU	0.85	24	0.1	5.3	1.0 NTU	0.55	165	0.05	23
Water Temperature	Degrees C	13	59	10	16	≤ 15 AO	12.5	324	6	17
	•					•				
			Micro	obial Par	ameters	i				
Indicator Bacteri	a							1		
Coliform, Total	CFU/100 mL	<1	24	< 1	1	0 MAC	< 1	236	<1	291
E. coli	CFU/100 mL	<1	24	<1	< 1	0 MAC	<1	235	<1	19
etero. Plate Count, 35C (2 day)	CFU/1 mL	` `'	Last teste		_ ` '	UNIAC	28	1	28	28
Parasites			1							
Cryptosporidium, Total oocysts	oocysts/100 L		Last teste	ed in 2014		Zero detection desirable	<1	1	<1	<1
Giardia, Total cysts	cysts/100 L		Last teste			Zero detection desirable	<1	1	<1	<1
	, ,			Metal	٩	•				
				Wictar	3					
Aluminum	ug/L as Al	<3	8	< 3	4	0000 MA O / 400 OO	< 3	74	< 3	96
	-		8		< 0.5	2900 MAC / 100 OG	< 0.5	74	< 0.5	< 0.5
Antimony Arsenic	ug/L as Sb	< 0.5 0.325	8	< 0.5 0.19	0.63	6 MAC 10 MAC	0.33	74	0.14	1.64
Barium	ug/L as As ug/L as Ba	7.9	8	4.6	11.8	1000 MAC	9.85	74	4.4	1.64
Beryllium	ug/L as Be	< 0.1	8	< 0.1	< 0.1	1000 IVIAC	< 0.1	74	< 0.1	< 3
Bismuth	ug/L as Bi	<1	8	< 1	<1		< 1	72	<1	< 1
Boron	ug/L as B	55	8	< 50	85	5000 MAC	56.5	74	< 50	494
Cadmium	ug/L as Cd	< 0.01	8	< 0.01	< 0.01	7 MAC	< 0.01	74	< 0.01	< 0.1
Calcium	mg/L as Ca	41.2	8	32.6	53.4	No Guideline Required	39.65	74	29.1	58.3
Chromium	ug/L as Cr	<1	8	< 1	<1	50 MAC	< 1	74	< 1	< 10
Cobalt	ug/L as Co	< 0.2	8	< 0.2	< 0.2		< 0.2	74	< 0.2	< 20
Copper	ug/L as Cu	1.98	8	0.82	3.44	2000 MAC / ≤ 1000 AO	2.125	74	0.46	21.5
Iron	ug/L as Fe	141.5	8	26.2	696	≤ 100 AO	119.5	74	11.4	4170
Lead	ug/L as Pb	0.515	8	< 0.2	0.96	5 MAC	0.49	74	< 0.2	9.29
Lithium	ug/L as Li	17.2	8	15.2	19.2		17.7	47	14.5	21.4
Magnesium	mg/L as Mg	7.635	8	6.56	9.64	No Guideline Required	7.94	74	6.15	10.8
Manganese	ug/L as Mn	376	8	330	444	120 MAC / ≤ 20 AO	395.5	84	4.1	1140
Molybdenum	ug/L as Mo	<1	8	< 1	< 1		< 1	74	< 1	< 20
Nickel	ug/L as Ni	1.05	8	< 1	6.6		< 1	74	< 1	< 50
Potassium	mg/L as K	0.258	8	0.201	0.282		0.2515	74	< 0.03	0.358
Selenium	ug/L as Se	< 0.1	8	< 0.1	< 0.1	50 MAC	< 0.1	74	< 0.1	< 0.5
Silicon	mg/L as Si	9180	8	8240	10600	No Codd Bro Do 1	9680	74	7610	11700
Silver	ug/L as Ag	< 0.02	8	< 0.02	< 0.02	No Guideline Required	< 0.02	74	< 0.02	< 10
Sodium	mg/L as Na	51.45	8	41.7	58.3	≤ 200 AO	53.2	74	37.6	78.9
Strontium Sulphur	ug/L as Sr mg/L as Si	421.5 5.75	8	334 4.2	552 6.4	7000 MAC	401.5 6.35	74 72	328 3.7	578 8.8
Sulpnur	ug/L as Sn	5.75 < 5	8	4.2 < 5	< 5		< 5	74	3.7 < 5	< 20
Titanium	ug/L as Sn ug/L as Ti	< 5 < 5	8	< 5 < 5	< 5 < 5		< 5 < 5	74	< 5 < 5	< 10
Thallium	ug/Las II ug as TI	< 0.01	8	< 0.01	< 0.01		< 0.01	72	< 0.01	< 0.05
Uranium	ug/L as U	< 0.1	8	< 0.1	< 0.01	20 MAC	< 0.01	72	< 0.1	0.14
Vanadium	ug/L as V	< 5	8	< 5	< 5	20 1000	< 5	74	< 5	< 10
Zinc	ug/L as Zn	5.15	8	< 5	18.3	≤ 5000 AO	9.05	74	< 5	211
Zirconium	ug/L as Zr	< 0.1	8	< 0.1	< 0.1	_ 55557.5	< 0.1	72	< 0.1	< 0.5

PARAMETER	Treated Water T			ane water ICAL RESUL	_	CANADIAN GUIDELINES	204.4	- 2022 414	ALYTICAL RE	CIII TO
				1		CANADIAN GUIDELINES	2014			
Parameter	Units of	Annual	Samples	Rar	0	\leq = Less than or equal to	N de all'ana	Samples		nge
Name	Measure	Median	Analyzed	Minimum	Maximum		Median	Analyzed	Minimum	Maximum
ID means Not Detected by analytic	ai metnod used		Dhy	sical Par	amotoro					
			Filly	Sicai Pai	ameters	<u> </u>				
Alkalinity, Total	mg/L		Last analy	zed in 2012			211	1	211	211
Carbon, Total Organic	mg/L as C	1.03	4	0.77	1.3		1.1	32	0.66	2.52
Colour, True	TCU	1.00		zed in 2009	1.0	≤ 15 AO			lyzed in 2009	
Conductivity @ 25C	uS/cm			zed in 2009		= 10710			llyzed in 2009	
Hardness as CaCO ₃	mg/L	144	16	140	148	No Guideline Required	142	99	62.9	161
pH	pH units	7.3	1	7.3	7.3	7.0-10.5 AO	7.62	33	6.4	8.1
Turbidity	NTU	0.525	16	0.28	1.3	1 MAC and ≤ 5 AO	0.41	135	0.1	110
Water Temperature	Degress C	11	128	4.5	22	≤ 15 AO	12	2343	4	23
										
			Micr	obial Par	ameters	3				
Indicator Bact	eria									
	_									
Coliform, Total	CFU/100 mL	< 1	47	< 1	< 1	0 MAC	< 1	349	<1	120
E. coli	CFU/100 mL	< 1	47	< 1	< 1	0 MAC	< 1	350	<1	< 1
Hetero. Plate Count 7 day	CFU/1 mL		Not teste	d in 2024		No Guideline Required	< 10	44	< 10	2600
		_		Disinfect	ants					
Disinfectant	ts		1							
Oblavia Con B			100	0.04	0.5-	Ne Codd-P D	001	000:	0.10	
Chlorine, Free Residual	mg/L as Cl2	0.68	163	0.21	3.57	No Guideline Required	0.64	2364	0.18	2.2
Chlorine, Total Residual	mg/L as Cl ₂	0.84	8	0.59	1.2	No Guideline Required	0.75	1905	0.22	2.2
			Disinf	astion Di	. Dua diii	-4-				
			DISINI	ection By	/-Produc	CIS				
Trihalomethanes	(THMs)									
Bromodichloromethane	ug/L	12.5	4	9.4	16		10.45	4	8.3	11
Bromoform	ug/L	1.05	4	< 1	1.6		< 1	35	< 0.1	1.1
Chloroform	ug/L	14.5	4	12	18		13.5	4	11	16
Chlorodibromomethane	ug/L	6.95	4	5.1	11	400.440	4.6	4	3.8	6.7
Total Trihalomethanes	ug/L	35	4	27	45	100 MAC	30.5	34	20	185
Haloacetic Acids	(HAA)									
										7.4
HAA5	ug/L		Not teste	ed in 2024		80 MAC	6.025	6	0.958	7.4
HAA5	ug/L		Not teste	ed in 2024		80 MAC	6.025	6	0.958	7.4
HAA5	ug/L		Not teste	ed in 2024 Metal	s	80 MAC	6.025	6	0.958	7.4
				Metal		80 MAC				
HAA5	ug/L ug/L as AI	<3	Not teste		S	80 MAC	6.025	99	0.958	119
		< 3 < 0.5		Metal						
Aluminum	ug/L as AI		16	Metal	15.3	2900 MAC / 100 OG	<3	99	< 3	119
Aluminum Antimony	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba	< 0.5	16 16	Metal	15.3 < 0.5	2900 MAC / 100 OG 6 MAC	< 3 < 0.5	99 99 99 99	< 3 < 0.5	119 < 0.5
Aluminum Antimony Arsenic Barium Beryllium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be	< 0.5 0.305 7.2 < 0.1	16 16 16 16 16	Metal < 3 < 0.5 0.25 5 < 0.1	15.3 < 0.5 0.4	2900 MAC / 100 OG 6 MAC 10 MAC	< 3 < 0.5 0.28 6.5 < 0.1	99 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1	119 < 0.5 9.4 29 < 3
Aluminum Antimony Arsenic Barium Beryllium Bismuth	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi	< 0.5 0.305 7.2 < 0.1 < 1	16 16 16 16 16	<pre></pre>	15.3 < 0.5 0.4 14.3 < 0.1 < 1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1	99 99 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1	119 < 0.5 9.4 29 < 3 < 1
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Bi ug/L as Bi	< 0.5 0.305 7.2 < 0.1 < 1 52	16 16 16 16 16 16	Metal < 3 < 0.5 0.25 < 0.1 < 1 < 50	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1	99 99 99 99 99 98 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50	119 < 0.5 9.4 29 < 3 < 1
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Bi ug/L as B ug/L as B	< 0.5 0.305 7.2 < 0.1 < 1 52 < 0.01	16 16 16 16 16 16 16	<pre></pre>	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01	99 99 99 99 99 98 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium	ug/L as AI 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 0.305 7.2 < 0.1 < 1 52 < 0.01 44.4	16 16 16 16 16 16 16 16	Metal < 3 < 0.5 0.25 5 < 0.1 < 1 < 50 < 0.01 43.4	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5	99 99 99 99 99 99 98 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium	ug/L as AI 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 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1	16 16 16 16 16 16 16 16 16	Metal < 3 < 0.5 0.25 < 0.1 < 1 < 50 < 0.01 < 43.4 < 1	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5 < 1	99 99 99 99 99 98 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt	ug/L as AI 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 Cr ug/L as Cr	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2	16 16 16 16 16 16 16 16 16 16	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2	99 99 99 99 99 98 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper	ug/L as AI 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 ug/L as Co ug/L as Co ug/L as Co	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35	16 16 16 16 16 16 16 16 16 16	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5 < 1 < 0.2	99 99 99 99 99 98 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2 5.83	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper	ug/L as AI 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 Co ug/L as CO ug/L as CO	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.02 15.35 36.05	16 16 16 16 16 16 16 16 16 16 16	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5 < 1 < 0.2 16	99 99 99 99 99 98 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2 5.83 < 5	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead	ug/L as AI 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 ug/L as Co ug/L as Co ug/L as Co ug/L as Fe ug/L as Pb	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445	16 16 16 16 16 16 16 16 16 16 16 16	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52	99 99 99 99 99 98 99 99 99 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 <1 <0.01 <0.01 <0.01 <0.02 <0.01 <0.02 <0.02	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Cd ug/L as Cd ug/L as Cd ug/L as Co ug/L as Co ug/L as Cu ug/L as Fb ug/L as Li	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1	16 16 16 16 16 16 16 16 16 16 16 16 16	Metal < 3 < 0.5 < 0.25 < 5 < 0.1 < 1 < 50 < 0.01 43.4 < 1 < 0.2 6.13 < 5 < 0.2 15.3	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15	99 99 99 99 99 98 99 99 99 99 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium	ug/L as AI 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 mg/L as Cr ug/L as Co ug/L as Co ug/L as Cu ug/L as Cu ug/L as Cu ug/L as Fe ug/L as Fb ug/L as K	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Metal < 3 < 0.5 < 0.25 < 0.1 < 1 < 50 < 0.01 43.4 < 1 < 0.2 6.13 < 5 < 0.2 15.3 0.239	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261	99 99 99 99 99 98 99 99 99 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2 5.83 < 5 < 0.2 9.4 0.235	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium	ug/L as AI ug/L as Sb ug/L as As 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 Co ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as K mg/L as K	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.0.2 15.35 36.05 0.445 17.1 0.252 7.67	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 50.28 6.5 < 0.01 44.5 < 1 6.24.9 0.52 17.15 0.261 7.62	99 99 99 99 99 98 99 99 99 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.02 5.83 < 5 < 0.2 9.4 0.235 2.71	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese	ug/L as AI 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 mg/L as Cr ug/L as Co ug/L as Mg ug/L as Mg	<0.5 0.305 7.2 <0.1 52 <0.01 44.4 <1 <0.02 15.35 36.05 0.445 17.1 0.252 7.67 90.3	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 79.4	99 99 99 99 99 98 99 99 99 99 99 99 99 9	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2 5.83 < 5 < 0.2 9.4 0.235 2.71 < 1	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89 1790
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum	ug/L as AI 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 Co ug/L as Fe ug/L as Fe ug/L as Fb ug/L as K mg/L as Mg ug/L as Mo	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.02 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1	99 99 99 99 99 98 99 99 99 99 99 99 99 9	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 <20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.80 5.04 19.7 0.41 8.89 1790 < 20
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesee Molybdenum Nickel	ug/L as Al 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 Co ug/L as Co ug/L as Cu ug/L as Fe ug/L as K mg/L as Mg ug/L as Mo ug/L as Mo	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <1	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <1	99 99 99 99 99 98 99 99 99 99 99 99 99 9	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <1 <1	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 248.00 19.7 0.41 8.89 1790 < 20 < 50
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium	ug/L as AI ug/L as Sb 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 Co ug/L as Co ug/L as Co ug/L as Ko ug/L as K mg/L as Mo ug/L as Mo ug/L as Ni ug/L as Ni ug/L as Se	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 1 < 0.1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5 < 1 6.24.9 0.52 17.15 0.261 7.62 79.4 < 1 < 0.1	99 99 99 99 99 99 99 99 99 99 99 99 99	< 3 < 0.5 0.19 2.9 < 0.1 < 1 < 50 < 0.01 20.7 < 1 < 0.2 5.83 < 5 < 0.2 9.4 0.235 2.71 < 1 < 1 < 1 < 1 < 0.1	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89 1790 <20 <50 <0.5
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnese Molybdenum Nickel Selenium Silicon	ug/L as AI 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 mg/L as Ca ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as K mg/L as K mg/L as Mo ug/L as Mo ug/L as No ug/L as Se ug/L as Se	<0.5 0.305 7.2 <0.1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 9410	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 6.24.9 0.52 17.15 0.261 79.4 <1 <0.1 9730	99 99 99 99 99 99 99 99 99 99 99 99 99	<pre><3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <1 <0.1 5370</pre>	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89 1790 <20 <50 <0.5
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver	ug/L as AI 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 mg/L as Co ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Si ug/L as Si ug/L as Si	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.02 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <1 <0.1 9410 <0.02	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 1 < 0.1 < 0.1 < 0.2	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <	99 99 99 99 99 98 99 99 99 99 99 99 99 119 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 <20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <0.1 <50 <0.01 <0.1 <0.25 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7 0.41 8.89 1790 < 20 < 50 < 0.5 12000 < 10
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium	ug/L as Al ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Cd ug/L as Ca ug/L as Co ug/L as Co ug/L as Co ug/L as Co ug/L as Fb ug/L as K mg/L as Mo ug/L as Mo ug/L as Mo ug/L as Ni ug/L as Se ug/L as Ni ug/L as Se ug/L as Ni ug/L as Ag mg/L as Ag	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 9410 <0.02 51	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Netal <3 <0.5 0.25 5 <0.1 <1 <50 <0.01 <3 <5 <0.2 <5.3 <5 <0.2 <5.3 <5 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 1 < 0.1 9750 < 0.02 56.2	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <0.1 9730 <0.002 52.9	99 99 99 99 99 99 99 99 99 99 99 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <1 <0.1 5370 <0.02 25.9	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.80 5.04 19.7 0.41 8.89 1790 < 20 < 50 < 0.5 12000 < 10 68
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium	ug/L as AI ug/L as Sb 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 Fe ug/L as K mg/L as Mg ug/L as Mo ug/L as Mo ug/L as Ni ug/L as Se ug/L as Ag mg/L as Ag mg/L as Na ug/L as Sr	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 <0.1 9410 <0.002 51 434	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 56.2 469	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <0.1 9730 <0.02 52.9	99 99 99 99 99 99 99 99 99 99 99 99 1119 99 9	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <1 <0.1 5370 <0.002 25.9 196	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7 0.41 8.89 1790 < 20 < 50 < 0.5 12000 < 10 68 497
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Strontium	ug/L as AI 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 mg/L as Cr ug/L as Cr ug/L as Cu ug/L as Cu ug/L as Cu ug/L as Fe ug/L as Ko ug/L as Ko mg/L as Mo ug/L as Mo ug/L as Se ug/L as Si ug/L as Ag mg/L as Na ug/L as Ss mg/L as Ss	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 9410 <0.02 51 434 5.8	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 64 < 0.01 < 0.02 65.8 64 60.01	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 53 < 0.01 44.5 < 1 < 0.24.9 0.52 17.15 0.261 7.62 79.4 < 1 < 1 < 0.1 9730 < 0.02 52.9 424 6.1	99 99 99 99 99 99 99 99 99 99 99 119 99 9	<pre><3 <0.5 0.19 2.9 <0.1 <1 <10.7 <1 <0.02 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <0.1 5370 <0.02 25.9 196 4.8</pre>	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89 1790 <20 <50 <0.5 12000 <10 68 497 8.9
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin	ug/L as AI 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 mg/L as Ca ug/L as Co ug/L as Kn ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Ni ug/L as Si	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <1.0 <0.1 9410 <0.02 51 434 5.8 <5	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 56.2 469 6.1 < 5	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.24.9 0.52 17.15 0.261 79.4 <1 <0.1 9730 <0.02 52.9 424 6.1 <55	99 99 99 99 99 99 99 99 99 99 99 119 99 9	<pre><3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <1 <0.1 5370 <0.02 25.9 196 4.8 <5</pre>	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7 0.41 8.89 1790 < 20 < 50.5 12000 < 10 68 497 8.9 < 20
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Bi ug/L as Cd mg/L as Cd ug/L as Co ug/L as Co ug/L as Co ug/L as Fe ug/L as Fe ug/L as Fi ug/L as Mo ug/L as Mo ug/L as Mo ug/L as Si ug/L as Si ug/L as Sr mg/L as Sr mg/L as Sn ug/L as Sn ug/L as Sn	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 9410 <0.02 51 434 5.8 <55 <55	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 1 < 0.1 9750 < 0.02 56.2 469 6.1 < 5 < 5	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 <1 <1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.	99 99 99 99 99 99 99 99 99 99 99 99 119 99 9	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <0.1 5370 <0.02 25.9 196 4.8 <5 <5 <5	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1 51.5 13 < 20 48.8 24800 5.04 19.7 0.41 8.89 1790 < 20 < 50 < 0.5 12000 < 10 68 497 8.9 < 20 < 10
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Thallium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Bi ug/L as Ca ug/L as Ca ug/L as Co ug/L as K mg/L as K mg/L as Mo ug/L as Mo ug/L as Mo ug/L as Ni ug/L as Se ug/L as Se ug/L as Sc ug/L as Sc ug/L as Sc ug/L as Sr mg/L as Ss ug/L as Sr mg/L as Sr mg/L as Sr ug/L as Sr	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <1 <0.1 9410 <0.02 51 434 5.8 <55 <0.01	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Columbia	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 56.2 469 6.1 < 5 < 5 < 0.01	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 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	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <0.1 9730 <0.02 52.9 424 6.1 <5 <0.01	99 99 99 99 99 99 99 99 99 99 99 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <0.1 5370 <0.02 25.9 196 4.8 <5 <0.01	119 < 0.5 9.4 29 < 3 < 1 448 < 0.1.5 13 < 20 48.8 24800 5.04 19.7 0.41 8.89 1790 < 20 < 50 < 0.5 12000 < 10 68 497 8.9 < 20 < 10 < 0.05
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Thallium Uranium	ug/L as AI ug/L as Sb 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 K mg/L as Mo ug/L as Mo ug/L as Ni ug/L as Ni ug/L as Ni ug/L as Na ug/L as Sc ug/L as Sc ug/L as Sc ug/L as Sr ug/L as Sn	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <0.1 9410 <0.02 51 434 5.8 <5 <0.01 <0.01	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Section	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 56.2 469 6.1 < 5 < 0.01 < 0.1	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 MAC No Guideline Required 50 MAC 2000 MAC / ≤ 1000 AO ≤ 100 AO 5 MAC No Guideline Required 120 MAC / ≤ 20 AO 50 MAC	< 3 < 0.5 0.28 6.5 < 0.1 < 1 50.28 6.5 < 0.01 44.5 < 1 6.24.9 0.52 17.15 0.261 7.62 79.4 < 1 < 0.1 9730 < 0.02 52.9 424 6.1 < 5 < 5 < 0.01 < 0.01	99 99 99 99 99 99 99 99 99 99 99 99 99	<pre>< 3 < 0.5 0.19 2.9 < 0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <1 <0.1 5370 <0.02 25.9 196 4.8 <5 <0.01 <0.01 <0.01 <0.01 </pre>	119 <0.5 9.4 29 <3 <1 448 <0.1 51.5 13 <20 48.8 24800 5.04 19.7 0.41 8.89 1790 <20 <50 <0.5 12000 <10 68 497 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 <0.5 40.7 8.9 <20 <10 60 60 60 60 60 60 60 60 60 60 60 60 60
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Potassium Magnesium Manganese Molybdenum Nickel Selenium Silicon Silver Sodium Strontium Sulphur Tin Titanium Thallium	ug/L as AI ug/L as Sb ug/L as As ug/L as Ba ug/L as Be ug/L as Bi ug/L as Bi ug/L as Ca ug/L as Ca ug/L as Co ug/L as K mg/L as K mg/L as Mo ug/L as Mo ug/L as Mo ug/L as Ni ug/L as Se ug/L as Se ug/L as Sc ug/L as Sc ug/L as Sc ug/L as Sr mg/L as Ss ug/L as Sr mg/L as Sr mg/L as Sr ug/L as Sr	<0.5 0.305 7.2 <0.1 <1 52 <0.01 44.4 <1 <0.2 15.35 36.05 0.445 17.1 0.252 7.67 90.3 <1 <1 <0.1 9410 <0.02 51 434 5.8 <55 <0.01	16 16 16 16 16 16 16 16 16 16 16 16 16 1	Columbia	15.3 < 0.5 0.4 14.3 < 0.1 < 1 64 < 0.01 47.6 < 1 < 0.2 85.8 58.4 2.32 18.2 0.284 8.3 266 < 1 < 0.1 9750 < 0.02 56.2 469 6.1 < 5 < 5 < 0.01	2900 MAC / 100 OG 6 MAC 10 MAC 1000 MAC 5000 MAC 5 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	<3 <0.5 0.28 6.5 <0.1 <1 53 <0.01 44.5 <1 <0.2 16 24.9 0.52 17.15 0.261 7.62 79.4 <1 <0.1 9730 <0.02 52.9 424 6.1 <5 <0.01	99 99 99 99 99 99 99 99 99 99 99 99 99	<3 <0.5 0.19 2.9 <0.1 <1 <50 <0.01 20.7 <1 <0.2 5.83 <5 <0.2 9.4 0.235 2.71 <1 <0.1 5370 <0.02 25.9 196 4.8 <5 <0.01	119 <0.5 9.4 29 <3 <1 448 <0.1.5 13 <20 48.8 248.00 5.04 19.7 0.41 8.89 1790 <20 <50 <0.5 12000 <10 68 497 8.9 <20 <10 <0.05