Capital Regional District

625 Fisgard St.,
Victoria, BC V8W 1R7

Notice of Meeting and Meeting Agenda
Cedars of Tuam Water Service Commission

Monday, October 21, 2024 | **10:00 AM** | **SIMS Boardroom, 124 Rainbow Road, Salt Spring Island BC**

Annual General Meeting

MS Teams Link: Click here

G. Holman, J. Edwards, J. Wu

The Capital Regional District strives to be a place where inclusion is paramount and all people are treated with dignity. We pledge to make our meetings a place where all feel welcome and respected

Purpose of the Annual General Meeting

The agenda for the Annual General Meeting (AGM) is approved by the members of the Commission. The purposes (and hence the agenda items) of the meeting are:

• To have the last year's AGM minutes approved (by Commission members), and to present reports on the work of the Commission on the past year's operation, maintenance, capital upgrades and financial information of the service to the service residents and owners,
• To nominate members for appointment to the Commission, and
• To enable the public to share comments on subjects which relate to the work of the Commission. The Commission can identify (under "new business") issues on which it wants feedback at the meeting. Motions raised by the public at the AGM will be considered by the commission at a subsequent regular meeting.

The Annual General Meeting is for the 2023 fiscal year

1. Territorial Acknowledgment

2. Election of Chair

3. Approval of Agenda

4. Adoption of Minutes

4.1. 24-1051 Minutes of June 13, 2023 Cedars of Tuam Water Commission

Recommendation: That the minutes of the following meetings be adopted as presented:
-June 13, 2023 Annual General Meeting (AGM)
-June 13, 2023 Special Meeting

Attachments: Minutes: June 13, 2023 AGM

Minutes: June 13, 2023 Special meeting

5. Director and Chair's Report

6. Report

6.1. 24-703 Cedars of Tuam Water Service Annual Report 2023

Recommendation: There is no recommendation. This report is for information only.

Attachments: Cedars of Tuam Annual Report 2023

7. Election of Commissioner

No positions are available for 2024-2025

8. New Business

None

9. Outstanding Business

None

10. Adjournment

Next Meeting:

-Monday, October 21, 2024, at 11:00am in the Salt Spring Island Multi Space (SIMS) Boardroom, 124 Rainbow Road, Salt Spring Island, BC V8K 2V5

Making a difference...together

Minutes of the Annual General Meeting of the Cedars of Tuam Water Service Commission Held June 13, 2023 for the 2022 Fiscal Year at the Salt Spring Island Multi Space (SIMS) Boardroom, 124 Rainbow Road, Salt Spring Island, BC

DRAFT

Present: **Director:** Gary Holman
Commission Members: Peter Wypkema and Julian Edwards
Staff: Karla Campbell, Senior Manager, Salt Spring Island Electoral Area, Dean Olafson, Manager SSI Engineering, Dan Robson, Manager, Saanich Peninsula and Gulf Islands Operations (Via Zoom), Lia Xu, Manager, Finance Services (Via Zoom), and Shayla Burnham, Recording Secretary

These minutes follow the order of the agenda although the sequence may have varied.

1. Territorial Acknowledgement / Call Meeting to Order

A Territorial Acknowledgement was provided by Commissioner Wypkema and the meeting was called to order at 12:32pm.

2. Election of Chair

Staff called for nominations from the floor. Commissioner Wypkema nominated Commissioner Edwards as Chair. After calling three times and hearing no other nominations, Commissioner Edwards was elected as Chair.

3. Approval of Agenda

MOVED By Commissioner Wypkema, **SECONDED** by Commissioner Edwards, that the Cedars of Tuam Water Service Commission approve the Monday, June 13, 2023 Annual General Meeting agenda for the 2022 fiscal year as presented.

CARRIED

4. Adoption of Minutes of the 2021 Annual General Meeting held on June 24, 2022

MOVED By Commissioner Wypkema, **SECONDED** by Commissioner Edwards, that the Cedars of Tuam Water Service Commission adopt the minutes of the 2021 Annual General Meeting held on June 24, 2022 as presented.

5. Director and Chair Report

Director Holman briefly reported:

- Salt Spring Island Local Community Commission elected on Saturday, May 27, with the inaugural meeting scheduled on Tuesday, June 20, 2023.
- Islands Trust hosting Open Houses as part of the engagement process of Proposed Bylaw No. 530 – Accessory Dwelling Units on Tuesday, June 6 and Saturday, June 10, 2023.
- Salt Spring Island Watershed Protection Alliance (SSIWPA) budget approved.

Chair Edwards – no report

6. Report

6.1 Annual Report for the 2022 Fiscal Year

There is no recommendation. This report is for information only.

7. New Business – None

8. Outstanding Business – None

9. Next Meeting

Cedars of Tuam Water Service Commission Special meeting to follow directly after adjournment.

10. Adjournment

MOVED By Commissioner Wypkema, that the Cedars of Tuam Water Service Commission adjourn the meeting at 12:56pm.

_____
CHAIR

_____
SENIOR MANAGER

Making a difference...together

Minutes of the Special Meeting of the Cedars of Tuam Water Service Commission Held June 13, 2023 at the Salt Spring Island Multi Space (SIMS) Boardroom, 124 Rainbow Road, Salt Spring Island, BC

DRAFT

Present: **Director:** Gary Holman
Commission Members: Peter Wypkema and Julian Edwards
Staff: Karla Campbell, Senior Manager, Salt Spring Island Electoral Area, Dean Olafson, Manager SSI Engineering, Dan Robson, Manager, Saanich Peninsula and Gulf Islands Operations (Via Zoom), and Shayla Burnham, Recording Secretary

These minutes follow the order of the agenda although the sequence may have varied.

1. Territorial Acknowledgement / Call Meeting to Order

A Territorial Acknowledgement was provided by Commissioner Edwards and the meeting was called to order at 12:56pm.

2. Approval of Agenda

MOVED By Commissioner Edwards, **SECONDED** by Commissioner Wypkema,
that the Cedars of Tuam Water Service Commission approve the Monday, June 13, 2023 Special Meeting agenda as presented.

CARRIED

3. New Business

3.1 Status of New Well Installation Cost Estimate

Discussion ensued regarding the new well installation.

- Grant application was not accepted
- Costing for updated estimates to be reviewed
- Isabella Well has more capacity

3.2. Report on Further Cost Reduction Ideas for Well

Discussion ensued regard in options for costing of new well.

- Possible rate payer meeting regarding new well
- Staff to review alternative grant options

4. Next Meeting

TBD

5. Adjournment

MOVED By Commissioner Wypkema, that the Cedars of Tuam Water Service Commission adjourn the meeting at 01:51pm.

_____
CHAIR

_____
SENIOR MANAGER

Cedars of Tuam Water Service

2023 Annual Report

CRD | Drinking Water

INTRODUCTION

This report provides a summary of the Cedars of Tuam Water Service for 2023. 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 Cedars of Tuam Water Utility is a rural residential community located on Salt Spring Island. The service was created in 1970 and became a CRD service in 2002. The Cedars of Tuam Water Utility (Figure 1) is comprised of 16 parcels of land 17 single-family equivalent connections.

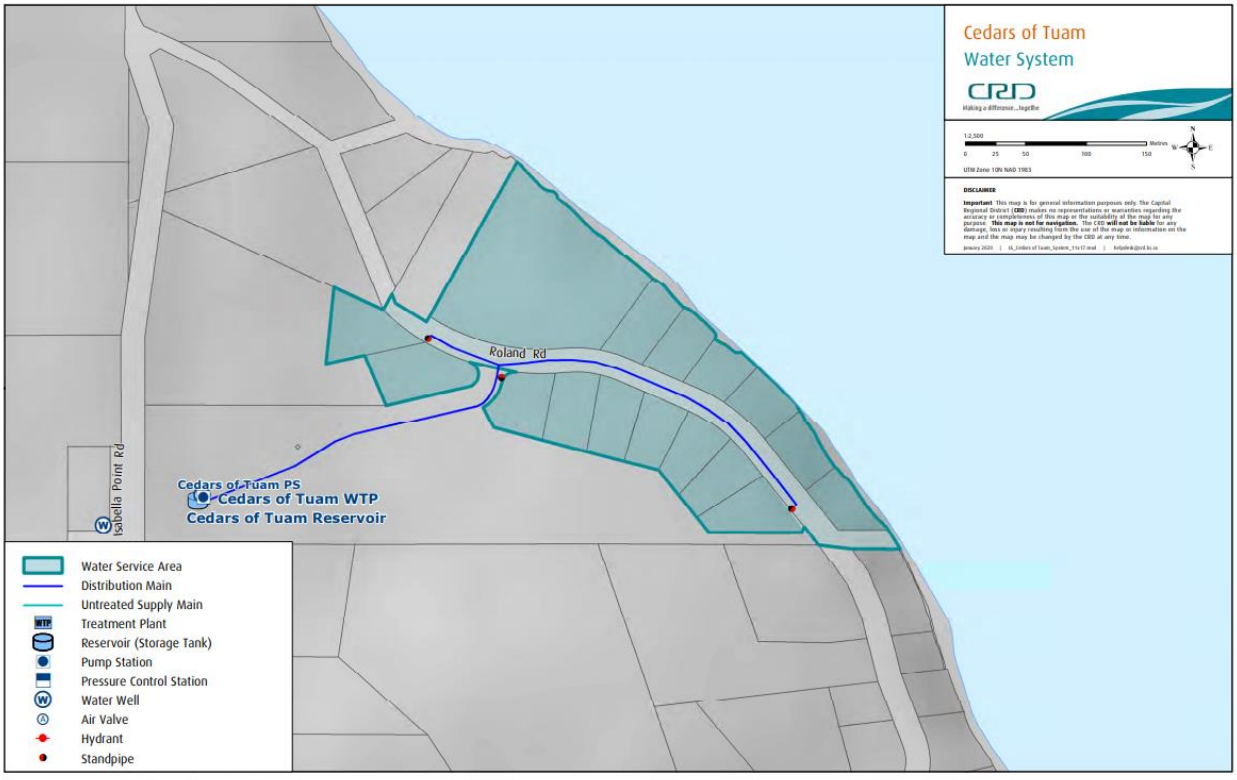

Figure 1: Cedars of Tuam Water Service

The Cedars of Tuam water system is primarily comprised of:

- One ground water source well
- A water treatment plant (WTP) that has a vortex sand separator and provides disinfection using sodium hypochlorite;
- 1 water reservoir – 46 m^3 (10,000 Ig);

- 650 meters of water distribution pipe;
- standpipes and gate valves;
- water service connections complete with water meters**.**

WATER PRODUCTION AND DEMAND

Referring to Figure 2, the amount of water extracted (water production) from the groundwater in 2023 is unknown. This is the result of inaccurate water meter readings due to sand intrusion of the groundwater source. Sand builds up in the meter creating a false under reading. As of late 2023 a new water meter has been installed that is not influenced by the sand to cause false or inaccurate readings. Water demand (customer water billing) for the service totalled 1,316 m^3 of water; a 3% decrease from the previous year and a 7% decrease from the 5-year rolling average.

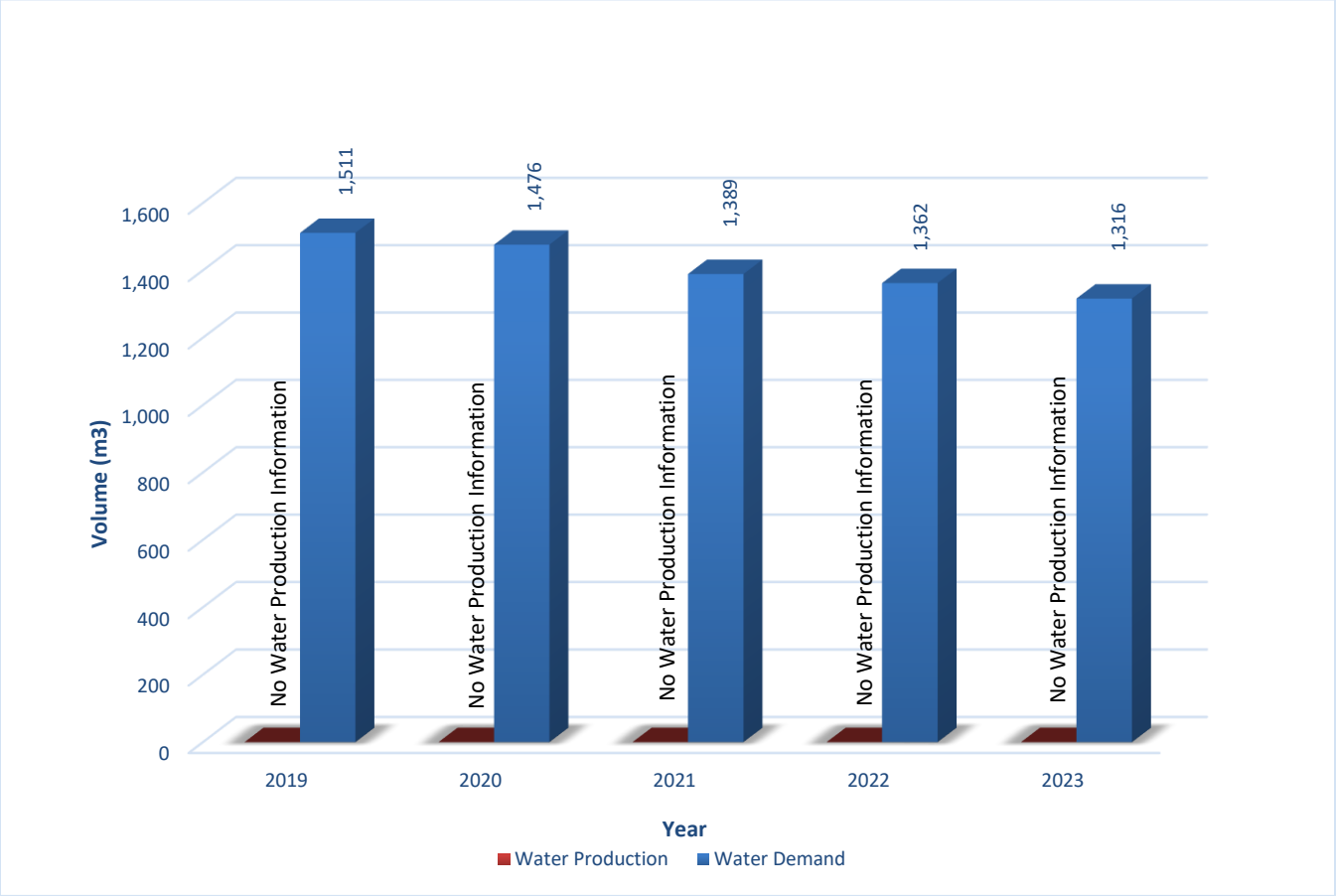

Figure 2: Cedars of Tuam Water Service Annual Water Production and Demand

The Cedars of Tuam Water System is fully metered, and water meters are read quarterly. Water meter information 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 standpipe usage, distribution system maintenance and process water for the treatment plant. For 2023, the non-revenue water cannot be calculated due to the erroneous raw water meter production information. This inaccurate water production information is now resolved with a replacement water meter. Water production readings will commence in 2024.

WATER QUALITY

The analytical results (biological, chemical and physical parameters) of water samples collected in 2023 from the Cedars of Tuam Water System indicated that the drinking water was safe to drink and mostly within Guidelines for Canadian Drinking Water Quality (GCDWQ) limits, including disinfection by-products. The treated water turbidity levels exceeded 1 Nephelometric Turbidity Units (NTU) a few times during November 2023, but only slightly. No indicator bacteria were found in the treated water in 2023.

Typical Cedars of Tuam Water System drinking water quality characteristics for 2023 are summarized as follows:

- Source water from the well was free of *E.coli* bacteria throughout the year and recorded only in December 2023 a very low concentration of total coliform bacteria.
- The raw water turbidity was almost consistently below 1 NTU throughout the year. Only on October 3 did a raw water sample record a turbidity of 1.8 NTU. By November 7, the raw water turbidity had dropped to 0.2 NTU again.
- Manganese concentrations were low throughout the year as usual, but iron concentrations increased in the fall without exceeding the aesthetic objective of 300 µg/L (highest peak: 200 µg/L). This increase in iron concentration in the late summer/fall has been observed in previous years and seems to coincide with aquifer recharge after the first post-summer rains.
- pH of the raw water was below the guideline range with a median of 6.85. The treated water after disinfection exhibited a slightly higher pH and the annual median was 7.2 and therefore just within the guideline range.
- Treated water was bacteriologically safe to drink all year in 2023, no indicator bacteria were found in any sample.
- The treated water turbidity leaving the treatment plant was mostly below 1 NTU during the year. Only during the month of November a few treated water samples registered a turbidity slightly over 1 NTU (max. 1.3 NTU).
- Disinfection by-product concentrations were well below the GCDWQ limits. Total organic carbon concentrations were very low throughout 2023.
- The median annual free chlorine concentration in the system was an acceptable 0.48 mg/L.

Table 1 and 2 below provide a summary of the 2023 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 by during the 2023 reporting period:

- Drinking Water Reservoir was drained, cleaned, and inspected.
- Emergency Water Delivery in October and November 2023.
- Flowmeter was installed at the Water Treatment Plant.

CAPITAL IMPROVEMENTS

The following is a summary of the major capital improvements, including year-end spending for 2023:

Safe Work Procedures (CE.699.4502): The work scope includes reviewing and developing safe work procedures for operational and maintenance tasks. Ongoing as capital improvements necessitate.

Project	Spending
Budget	$3,000
Project Management	($108)
Contract	($558)
Supplies/Materials	($102)
Balance Remaining	**$2,232**

Water Systems Upgrade (CE.792.1601): The scope includes replacing a chlorinator, level transducer and flow meter.

Project	Spending
Budget	$36,000
Project Management	($573)
Installation	($5,376)
Supplies - Instrumentation	($10,988)
Balance Remaining	**$19,063**

Public Engagement for Future Projects (CE.802.8301): Inform and engage the public within the service area on upcoming projects that will require borrowing for funding.

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

2023 FINANCIAL REPORT

Please refer to the attached 2023 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 includes 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 includes 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 includes all other costs to administer and operate the water system, including insurance, supplies, 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 Cedars of Tuam 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
	Glenn Harris, Ph.D., R.P.Bio., Senior Manager, Environmental Protection
	Dan Ovington, BBA , Senior Manager, Salt Spring Island Electoral Area
	Angela Linwood, CPA, CMA, Controller, Financial Services
Concurrence:	Ted Robbins, B. Sc., C. Tech., Chief Administrative Officer

Attachment: 2023 Statement of Operations and Reserve Balances

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

Table 1: 2023 Summary of Raw Water Test Results, Cedars of Tuam Water System										
PARAMETER		**2023 ANALYTICAL RESULTS**				**CANADIAN GUIDELINES**	**2013 - 2022 ANALYTICAL RESULTS**			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum	Range Maximum	≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum	Range Maximum
ND means Not Detected by analytical method used										
Physical Parameters/Biological										
Hardness as $CaCO_3$	mg/L	**61.15**	4	59.5	69.1	No Guideline Required	62.2	23	43.8	89.8
Turbidity	NTU	**0.425**	12	0.15	1.8	1.0 NTU	0.35	73	< 0.14	28
pH	pH Units	**6.85**	2	6.7	7	7.0-10.5 AO	6.785	22	6.3	7.4
Carbon, Total Organic	mg/L	**0.535**	2	0.41	0.66	Guideline Archived	0.815	12	0.5	1.09
Water Temperature	Degrees C	**11**	40	9.5	14	≤ 15 AO	12	65	1.47	16
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	**< 1**	11	< 1	1	0 MAC	< 1	254	< 1	600
E. coli	CFU/100 mL	**< 1**	11	< 1	< 1	0 MAC	< 1	237	< 1	1
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2023					200	41	< 10	3630
Parasites										
Cryptosporidium , Total oocysts	oocysts/100 L	Last tested in 2014				Zero detection desirable	<1	5	<1	3630
Giardia , Total cysts	cysts/100 L	Last tested in 2014				Zero detection desirable	<1	5	<1	3631
Metals										
Aluminum	ug/L as Al	**3.4**	4	< 3	48	2900 MAC / 100 OG	10.1	24	3.5	142
Antimony	ug/L as Sb	**< 0.5**	4	< 0.5	< 0.5	6 MAC	< 0.5	24	< 0.5	1.02
Arsenic	ug/L as As	**< 0.1**	4	< 0.1	< 0.1	10 MAC	< 0.1	24	< 0.1	< 0.5
Barium	ug/L as Ba	**4.75**	4	3.8	5.1	1000 MAC	5.25	24	4.2	11.8
Beryllium	ug/L as Be	**< 0.1**	4	< 0.1	< 0.1		< 0.1	24	< 0.1	< 3
Bismuth	ug/L as Bi	**< 1**	4	< 1	< 1		< 1	19	< 1	< 1
Boron	ug/L as B	**101**	4	54	160	5000 MAC	58.5	24	< 50	435
Cadmium	ug/L as Cd	**< 0.01**	4	< 0.01	< 0.01	7 MAC	< 0.01	24	< 0.01	< 0.1
Calcium	mg/L as Ca	**18.75**	4	17.9	20.5	No Guideline Required	19.35	24	13	29.9
Chromium	ug/L as Cr	**< 1**	4	< 1	1	50 MAC	< 1	24	< 1	< 10
Cobalt	ug/L as Co	**< 0.2**	4	< 0.2	< 0.2		< 0.2	24	< 0.2	< 20
Copper	ug/L as Cu	**3.11**	4	2.57	8.15	2000 MAC / ≤ 1000 AO	5.175	24	2.31	24
Iron	ug/L as Fe	**24.05**	4	10.9	200	≤ 300 AO	44.7	25	< 10	679
Lead	ug/L as Pb	**< 0.2**	4	< 0.2	0.35	5 MAC	0.285	24	< 0.2	1.9
Lithium	ug/L as Li	**< 2**	4	< 2	< 2		< 2	9	< 2	< 5
Magnesium	mg/L as Mg	**3.66**	4	3.26	4.38	No Guideline Required	3.655	24	2.75	5.07
Manganese	ug/L as Mn	**2.25**	4	< 1	5	120 MAC / ≤ 20 AO	2.05	24	< 1	10.9
Molybdenum	ug/L as Mo	**< 1**	4	< 1	< 1		< 1	24	< 1	< 20
Nickel	ug/L as Ni	**< 1**	4	< 1	< 1		< 1	24	< 1	< 50
Potassium	mg/L as K	**0.7675**	4	0.707	0.868		0.844	24	0.043	1.99
Selenium	ug/L as Se	**< 0.1**	4	< 0.1	< 0.1	50 MAC	< 0.1	24	< 0.1	< 0.5
Silicon	ug/L as Si	**7145**	4	6920	7380		6925	24	2240	10500
Silver	ug/L as Ag	**< 0.02**	4	< 0.02	< 0.02	No Guideline Required	< 0.02	24	< 0.02	< 10
Sodium	mg/L as Na	**17.45**	4	15.9	19.1	≤ 200 AO	17.25	24	12.9	22.8
Strontium	ug/L as Sr	**76.6**	4	63.9	89.3	7000 MAC	76.2	24	51	98.4
Sulfur	mg/L as S	**< 3**	4	< 3	< 3		< 3	19	< 3	< 3
Tin	ug/L as Sn	**< 5**	4	< 5	< 5		< 5	24	< 5	< 20
Titanium	ug/L as Ti	**< 5**	4	< 5	< 5		< 5	24	< 5	< 10
Thallium	ug/L as Tl	**< 0.01**	4	< 0.01	< 0.01		< 0.01	19	< 0.01	< 0.05
Uranium	ug/L as U	**< 0.1**	4	< 0.1	< 0.1	20 MAC	< 0.1	19	< 0.1	< 0.1
Vanadium	ug/L as V	**< 5**	4	< 5	< 5		< 5	24	< 5	< 10
Zinc	ug/L as Zn	**6.5**	4	5.7	6.8	≤ 5000 AO	8	24	4	177
Zirconium	ug/L as Zr	**< 0.1**	4	< 0.1	< 0.1		< 0.1	19	< 0.1	< 0.5

Table 2: 2023 Summary of Treated Water Test Results, Cedars of Tuam Water System										
PARAMETER	**2023 ANALYTICAL RESULTS**					**CANADIAN GUIDELINES**	**2013-2022 ANALYTICAL RESULTS**			
Parameter Name	Units of Measure	Annual Median	Samples Analyzed	Range Minimum	Range Maximum	≤ = Less than or equal to	Median	Samples Analyzed	Range Minimum	Range Maximum
ND means Not Detected by analytical method used										
Physical Parameters										
Hardness	mg/L as CaCO3	**78.8**	4	69.9	82.1		73	18	61.5	91.8
pH	pH units	**7.2**	6	6.6	8.1	AO pH 7.0 -10.5	7	60	6.5	7.9
Turbidity	NTU	**0.4**	51	0.05	1.3		0.45	215	0.1	17
Total Organic Carbon	mg/L	**0.485**	2	0.31	0.66		0.71	18	< 0.3	3.99
Water Temperature	deg C	**10.45**	146	5	17.5	≤ 15 AO	11	260	5	20
Microbial Parameters										
Indicator Bacteria										
Coliform, Total	CFU/100 mL	**< 1**	47	< 1	< 1	0 MAC	< 1	340	<1	1
E. coli	CFU/100 mL	**< 1**	47	< 1	< 1	0 MAC	< 1	340	<1	< 1
Hetero. Plate Count, 7 day	CFU/1 mL	Not tested in 2023				No Guideline Required	40	3	10	130
Disinfectants										
Disinfectants										
Chlorine, Free Residual	mg/L as Cl2	**0.48**	150	0.14	1.41		0.4	1143	0	2.4
Chlorine, Total Residual	mg/L as Cl2	**0.76**	16	0.56	1.03		0.5	915	0	2.5
Disinfection By-Products										
Disnfection Byproducts										
Bromodichloromethane	ug/L	**6.35**	2	5.9	6.8		9.1	3	7.4	13
Bromoform	ug/L	**1.4**	2	1.1	1.7		< 1	18	< 0.1	2
Chloroform	ug/L	**6.1**	2	5.5	6.7		9.8	3	7	16
Chlorodibromomethane	ug/L	**5.55**	2	5.4	5.7		6.4	3	6.1	7.5
Total Trihalomethanes	ug/L	**19.5**	2	19	20	100 MAC	20.5	18	8.73	49.9
Haloacetic Acids (HAA)										
HAA5	ug/L	Not tested in 2023				80 MAC	< 5	3	3.61	5.9
Metals										
Aluminum	ug/L as Al	**3.85**	4	3.5	6.1	2900 MAC / 100 OG	6.05	18	3.5	276
Antimony	ug/L as Sb	**< 0.5**	4	< 0.5	< 0.5	6 MAC	< 0.5	18	< 0.5	< 0.5
Arsenic	ug/L as As	**0.11**	4	< 0.1	0.12	10 MAC	< 0.1	18	< 0.1	0.62
Barium	ug/L as Ba	**10.65**	4	9.7	10.8	1000 MAC	10.4	18	4.5	15.8
Beryllium	ug/L as Be	**< 0.1**	4	< 0.1	< 0.1		< 0.1	18	< 0.1	< 0.1
Bismuth	ug/L as Bi	**< 1**	4	< 1	< 1		< 1	18	< 1	< 1
Boron	ug/L as B	**86.5**	4	61	129	5000 MAC	74.5	18	< 50	162
Cadmium	ug/L as Cd	**< 0.01**	4	< 0.01	< 0.01	7 MAC	< 0.01	18	< 0.01	0.011
Calcium	mg/L as Ca	**27.15**	4	23.6	29.3	No Guideline Required	26.05	18	18.5	35
Chromium	ug/L as Cr	**1.15**	4	< 1	1.4	50 MAC	1.1	18	< 1	2.7
Cobalt	ug/L as Co	**< 0.2**	4	< 0.2	< 0.2		< 0.2	18	< 0.2	0.67
Copper	ug/L as Cu	**12.05**	4	6.36	83.1	2000 MAC / ≤ 1000 AO	6.855	18	1.53	34.9
Iron	ug/L as Fe	**48.5**	4	29.9	90.8	≤ 300 AO	41.9	18	20.4	2440
Lead	ug/L as Pb	**0.33**	4	< 0.2	2.75	5 MAC	0.325	18	< 0.2	5.76
Lithium	ug/L as Li	**< 2**	4	< 2	< 2		< 2	9	< 2	< 2
Magnesium	mg/L as Mg	**2.495**	4	2.16	3.02	No Guideline Required	2.375	18	1.04	4.69
Manganese	ug/L as Mn	**1.5**	4	< 1	2.1	120 MAC / ≤ 20 AO	1.05	18	< 1	73
Molybdenum	ug/L as Mo	**< 1**	4	< 1	1		< 1	18	< 1	< 1
Nickel	ug/L as Ni	**< 1**	4	< 1	< 1		< 1	18	< 1	1.8
Potassium	mg/L as K	**0.823**	4	0.751	0.889		0.828	18	0.705	0.952
Selenium	ug/L as Se	**< 0.1**	4	< 0.1	< 0.1	50 MAC	< 0.1	18	< 0.1	< 0.1
Silicon	ug/L as Si	**7855**	4	7050	8080		7360	18	6170	8210
Silver	ug/L as Ag	**< 0.02**	4	< 0.02	< 0.02	No Guideline Required	< 0.02	18	< 0.02	< 0.02
Sodium	mg/L as Na	**18**	4	15.3	20.4	≤ 200 AO	18.15	18	15.1	20.7
Strontium	ug/L as Sr	**78.85**	4	76.8	87.8	7000 MAC	79.9	18	72.6	94.5
Sulphur	mg/L as S	**< 3**	4	< 3	< 3		< 3	18	< 3	< 3
Thallium	ug/L as Tl	**< 0.01**	4	< 0.01	< 0.01		< 0.01	18	< 0.01	< 0.01
Tin	ug/L as Sn	**< 5**	4	< 5	< 5		< 5	18	< 5	< 5
Titanium	ug/L as Ti	**< 5**	4	< 5	< 5		< 5	18	< 5	16
Uranium	ug/L as U	**< 0.1**	4	< 0.1	0.27	20 MAC	< 0.1	18	< 0.1	0.1
Vanadium	ug/L as V	**< 5**	4	< 5	< 5		< 5	18	< 5	6.4
Zinc	ug/L as Zn	**24.15**	4	9	268	≤ 5000 AO	10.3	18	< 5	54.6
Zirconium	ug/L	**< 0.1**	4	< 0.1	< 0.1		< 0.1	18	< 0.1	0.26