Falcon lake annual water report

2024

This report is to provide public awareness about the operation, requirements and results of the class 2 water treatment system for falcon lake MB. Under the Environment Act's Water and Wastewater Facility Operators Regulation this plant is classed as a Class 2 Treatment Facility because of the population it serves. Copies of this report will be made available at the falcon district office as well as on the Manitoba government website. Residents will be made aware of this report via e-mail and/or signage posted on bulletins around town. The Whiteshell cottagers association will also direct residents on how to access this report.

We strive to provide clean potable water to our families

Plant operators and classification

Matthew Macinnis – MM3, WT2, WD2
Steve Kuharski – MM1, WT2, WD2
Jacob Klassen – PK2, WT1, WD1

Where does our water come from?

- We have a very good clean and sufficient water source within close proximity of the water plant. This water source is an underground aquifer that is a completely separate water source than the lake, undergoing multiple tests throughout the years and having no influence from the lake water. We access this raw water source from a large diameter dug well that we have installed pumps to lift it to the water plant.

What is done to this raw water once it's at the water plant?

- Once the water is pumped into the plant, chlorine (sodium hypochlorite) is added and mixed in the first reactor tank. After the chemical has been mixed with the water in our reactors it then enters our iron/manganese filters which are filled with multiple layers of different sands and media which take out any impurities like iron from the water. Once this treatment process has finished the now clean potable water is stored in 4 underground reservoirs totaling 121,000 gals of potable water that is constantly circulating from one to the other until it is needed in the distribution system. We are required to have a minimum of 20 minutes of chlorine contact time. This means that the chlorine must have at least 20 minutes of contact with the raw water before going to the distribution system. Between the four filtration tanks and four reservoirs we exceed the minimum requirement. There are another set of pumps for the stored potable water to distribute water to the town and maintain a constant pressure in the system at all times.

What is the purpose for adding these chemicals to the water?

- The main purpose of the chlorine is that it disinfects and kills any harmful bacteria that may be present in the water. This makes chlorine your number one defense in providing safe drinking water, but it also helps with filtration process by pulling out particulates from the water so the filters can then remove them. The caustic soda is added to keep the water at a neutral PH level, if the PH is too high it will start scaling and restricting pipes, too low and it will eat or corrode pipes and fixtures. So with a neutral PH level your pipes and fixtures in your home can hopefully last as long as possible.

How does the plant operate when no one is there?

- The water plant is controlled by a SCADA system which monitors the operation of the plant 24/7. It monitors system pressure, raw pumps, distribution pumps, water level, water flow, chlorine levels, PH, power, air pressure, security system, etc. If anything goes outside of our set parameters the automated system has an audible alarm, beacon light as well as immediately calls our operators. When something does go wrong our

operators can access this system anytime from anywhere to take control and start making immediate corrective actions keeping our water safe at all times.

- **So what would happen during a power outage?**

  - If and when a power outage does occur the water plant is equipped with a generator that provides ample amount of power and starts up automatically to keep everything running. It also has a large power bank to keep things running for the couple seconds it takes for the generator to start up. The SCADA system will also call our operators to notify them that the water plant has lost power and running on the generator, so you may be left in the dark but you won't be left without water.

- **How can we be assured our water is safe at all times?**

  - There is an entire branch of the government designated to monitoring water plants throughout the province called The Office of Drinking Water. These water officers work very closely with plant operators to help ensure water quality is at its best while also making sure operators are following all requirements under The Drinking Water Safety Acts and it's regulations on a daily basis.

- **What kind of regulations need to be met?**

  - The Office of Drinking Water has different requirements for ever system depending on the water source, population, treatment method, etc. Falcon lake water treatment plant is required to test chlorine free and total in person every day of the year. We must also send water samples to an accredited laboratory every 2 weeks to be analyzed for E-coli and total coliforms. We do this test to the raw water, treatment water at the plant and from various sample points around town in the distribution system. The lab results are sent to the water officer every 2 weeks and our daily monitoring of chlorine levels are sent to the officer every month. We also must test for manganese on the raw, treated and distribution once a year as well as once every three years manganese samples must be taken quarterly on the distribution system. Failing to meet set requirements under The Drinking Water Safety Orders, charges, boil water advisories or water quality advisories. All of the requirements are listed in our operating licence for the water plant which you can review below.

Manitoba
Conservation and Climate
Office of Drinking Water
1007 Century Street, Winnipeg, Manitoba R3H 0W4

OPERATING LICENCE FOR A PUBLIC WATER SYSTEM

LICENCE NUMBER: PWS-10-424-02

THE DRINKING WATER SAFETY ACT CHAPTER D101, C.C.S.M.

WATER SYSTEM CODE:	**68.00**
OPERATION ID:	**26952**
EFFECTIVE DATE:	**NOVEMBER 30, 2020**
EXPIRY DATE:	**FEBRUARY 28, 2025**

IN ACCORDANCE WITH *THE DRINKING WATER SAFETY ACT*, THIS OPERATING LICENCE IS ISSUED PURSUANT TO SUBSECTION 8(1) TO:

MANITOBA CONSERVATION AND CLIMATE: "THE LICENSEE"

FOR THE OPERATION OF THE **FALCON LAKE PUBLIC WATER SYSTEM**, WHICH INCLUDES SECURE WELL, TREATMENT FACILITIES, WATER STORAGE RESERVOIRS, AND DISTRIBUTION LINES, SUBJECT TO THE ATTACHED TERMS AND CONDITIONS.

THIS LICENCE DOES NOT AFFECT THE LICENSEE'S OBLIGATIONS WITH RESPECT TO COMPLIANCE WITH ALL APPLICABLE MUNICIPAL, PROVINCIAL, AND FEDERAL LEGISLATION. THIS LICENCE SUPERSEDES ALL PREVIOUS LICENSES FOR THIS PUBLIC WATER SYSTEM.

DATE: June 18, 2021

Kim Philip, P.Eng.
Director

TERMS AND CONDITIONS

1. GENERAL

1.1. The Licensee shall operate the public water system in accordance with all applicable requirements of *The Drinking Water Safety Act* and its regulations, and the requirements of this Licence. In the event that specific terms and conditions of this Licence imposed under the authority of subsection 8(3) of the Act exceed the general requirements of the Act and regulations, the specific requirements of this Licence shall apply.

1.2. The Licensee shall obtain approval from the Office of Drinking Water prior to making any significant alterations to the water source, the water treatment process, the water storage facilities, or the water distribution system.

1.3. This Licence may be amended by the Director where, in the opinion of the Director, an amendment is necessary and the amendment will not negatively impact the safety of water obtained from the water system, or effective environmental management.

1.4. The Licensee may request an amendment to this licence by submitting an amendment application to the Office of Drinking Water.

1.5. This Licence may be suspended or cancelled by the Director for any of the reasons identified in Section 11 of *Manitoba Regulation 40/2007, Drinking Water Safety Regulation* or due to a failure to comply with any term or condition of this Licence.

1.6. The Licensee shall provide written notice to the Office of Drinking Water of any change in ownership of the water system within seven days of the transfer of ownership.

1.7. The Licensee shall provide written notice to the Office of Drinking Water of any changes in the operational status of the water system, such as a permanent cessation of service, or changing the length of service from year-round to seasonal or the opposite.

1.8. The Director of the Office of Drinking Water, Medical Officer of Health or Drinking Water Officer may enter any water system facility as necessary to carry out the provisions of *The Drinking Water Safety Act* and its regulations.

1.9. The Licensee shall post a copy of the first page of this Licence at the water treatment facility.

1.10. The Licensee shall keep a copy of this Licence in its entirety at a location established by the Drinking Water Officer and ensure all operators are familiar with its terms and conditions.

1.11. The Licensee shall apply for renewal of this Licence at least 60 days prior to its expiry.

2. OPERATION - GENERAL

2.1. The Licensee shall operate all water system facilities, control systems and equipment as efficiently as possible, inspect them on a regular basis, maintain them in good working order, and ensure that the water system is protected from the risks associated with cross-contamination.

2.2. The Licensee shall ensure that all chemicals and components that may come into contact with potable water are certified safe for potable water use through AWWA Standards, ANSI/NSF Standard 60 or 61, Health Canada, or other standards acceptable to the Director.

2.3. No alternate water source shall be brought into service without the consent of the Drinking Water Officer and the maintenance of adequate cross connection control between the alternate source and the primary source.

2.4. The Licensee shall follow the requirements as specified in Operational Guideline ODW-OG-02 Seasonal Water Systems Start-up Shut-down Procedures for any portion(s) of the distribution system that operate on a seasonal basis.

2.5. The Licensee shall have re-assessments of the water system infrastructure and water supply sources completed by a qualified person, who is not an employee of the water system, in accordance with assessment checklist GW by September 1, 2019, and every five years thereafter. The Licensee may instead have the assessment completed by a qualified professional engineer, who is not an employee of the water system, in accordance with terms of reference for engineering assessments.

2.6. The Licensee shall, upon request from the Office of Drinking Water, submit or re-submit a compliance plan, in a form satisfactory to the Director, to address any non-compliance issues identified at the time.

3. OPERATION – EMERGENCIES

3.1. The Licensee shall ensure that disinfection is undertaken following construction, repair or maintenance activities on the water system, in accordance with applicable AWWA standards, or Manitoba Water Services Board specifications, or any other standards approved by the Director. A copy of all associated test results must be kept available for review by the Office of Drinking Water for a minimum of 24 months.

3.2. The Licensee shall ensure that all equipment used for disinfection is maintained in effective working order and keep available for immediate use all spare parts and chemical supplies as may be necessary to ensure continuous disinfection, including a spare disinfection unit, if necessary.

3.3. The Licensee shall immediately notify the Office of Drinking Water of any condition that may affect the ability of the water system to produce or deliver safe drinking water including but not limited to treatment upsets or bypass conditions, contamination of the source water or treated water, a disinfection system failure, or a distribution system failure.

3.4. If a Medical Officer of Health, the Director of the Office of Drinking Water, or a Drinking Water Officer issues a water advisory on the water system, the Licensee shall provide notice of the advisory to all water users by a method acceptable to the issuer.

4. WATER QUALITY/TREATMENT STANDARDS

4.1. The Licensee shall operate the water system in a manner that achieves the water quality/treatment standards specified in Table 1, as determined through the monitoring requirements specified in Table 2:

Table 1: Water Quality/Treatment Standards

Parameter	Quality Standard
Total coliform	Less than one total coliform bacteria detectable per 100 mL in all treated and distributed water
E. coli	Less than one *E. coli* bacteria detectable per 100 mL in all treated and distributed water
Chlorine Residual	A free chlorine residual of at least 0.5 mg/L in water entering the distribution system following a minimum contact time of 20 minutes A free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system
Arsenic	Less than or equal to 0.01 mg/L
Benzene	Less than or equal to 0.005 mg/L
Ethylbenzene	Less than or equal to 0.14 mg/L
Fluoride	Less than or equal to 1.5 mg/L
Manganese	Less than or equal to 0.12 mg/L
Nitrate	Less than or equal to 45 mg/L measured as nitrate (10 mg/L measured as nitrogen)
Nitrite	Less than or equal to 3 mg/L measured as nitrite (1 mg/L measured as nitrogen)
Trichloroethylene	Less than or equal to 0.005 mg/L
Tetrachloroethylene	Less than or equal to 0.01 mg/L
Toluene	Less than or equal to 0.06 mg/L
Total Xylenes	Less than or equal to 0.09 mg/L
Uranium	Less than or equal to 0.02 mg/L
Lead	Less than or equal to 0.005 mg/L in the water distribution system

4.2. If a bacteriological standard is not met, the Licensee shall immediately undertake the applicable corrective actions as listed in "Schedule A" of Manitoba Regulation 41/2007, *Drinking Water Quality Standards Regulation*.

4.3. If a microbial, chemical, radiological, or physical standard is not met, the Licensee shall immediately undertake the applicable corrective actions specified in "Schedule C" of Manitoba Regulation 41/2007, the *Drinking Water Quality Standards Regulation*.

4.4. The Licensee shall maintain in effective working order chlorination and treated water storage equipment and controls designed to achieve a minimum of 20 minutes of chlorine contact time prior to water entering the distribution system.

5. WATER QUALITY MONITORING

5.1. The Licensee shall ensure monitoring is completed as set out in Table 2.

Table 2: Monitoring Schedule

Parameter	Monitoring Requirement
Bacteriological (total coliform and *E. coli*)	Biweekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of one distribution sample Consecutive sample sets to be separated by at least 12 days
Free Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time
Free Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
Total Chlorine (treated water)	One sample per day of water entering the distribution system following at least 20 minutes of contact time
Total Chlorine (distribution system)	At the same times and location(s) as bacteriological distribution system sampling
General Chemistry (parameter list provided by Office of Drinking Water)	One raw and one treated water sample once every three years
Total Metals (distribution system)	One sample taken at the same time as General Chemistry sampling at a mid-point in the distribution system
Lead	As per the instructions of the Drinking Water Officer
Manganese	One Raw, One Treated and One Distribution Sample each year. One distribution sample taken on a quarterly basis during February, May, August and November every three years at a mid-point in the distribution system.
Other Parameters	As per the instructions of the Drinking Water Officer

5.2. The Licensee shall ensure that an accredited laboratory, as specified in section 35 of Manitoba Regulation 40/2007 the *Drinking Water Safety Regulation*, undertake the following analysis required in Table 2:

a) bacteriological (total coliform and *E. coli*)
b) general chemistry
c) total metals
d) manganese
e) any other parameter required by the Drinking Water Officer

and that all samples are collected, handled, and submitted in a manner that is satisfactory to the accredited laboratory.

5.3. The Licensee shall ensure that parameters listed in Table 2 but not specified in clause 5.2 are measured utilizing certified water quality monitoring equipment and methods approved by the latest edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation.

5.4. The Licensee shall ensure that all water quality monitoring equipment is properly maintained and calibrated by a qualified person according to manufacturer recommendations and that records are maintained to that effect.

5.5. The Licensee shall ensure that sampling within the distribution system takes place at varied locations acceptable to the Drinking Water Officer.

6. RECORD-KEEPING AND REPORTING

6.1. The Licensee shall maintain in a secure location all construction drawings for the life of the water system components.

6.2. The Licensee shall retain in chronological order for a minimum of 24 months all information specified in subsection 34(2) of *Manitoba Regulation 40/2007, Drinking Water Safety Regulation.*

6.3. The Licensee shall ensure the information identified in clause 6.2 is available for inspection by any member of the public during normal business hours at the office of the water supplier or at a location convenient to the users of the system.

6.4. The Licensee shall record disinfectant residual measurements on the monthly disinfection report or other forms satisfactory to the Director.

6.5. The Licensee shall keep one copy of all monthly report forms required in this licence, and forward the original copy to the Drinking Water Officer within seven days after the end of each calendar month.

6.6. The Licensee shall record all distribution system measurements specified in *Table 2: Monitoring Schedule* on the chain of custody form (laboratory submission form) which accompanies the bacteriological sample bottles to the laboratory.

6.7. The Licensee shall ensure that water metering devices at the water treatment plant or storage reservoir are maintained in good working order and that flow meter readings are recorded on a daily basis and such records are made available for inspection by a Drinking Water Officer.

6.8. The Licensee shall submit an annual report to the Director by March 31st of each year on the operation of the water system in the immediately preceding calendar year. The report shall include the information as set out in subsection 32(2) of *Manitoba Regulation 40/2007, Drinking Water Safety Regulation.*

6.9. The Licensee shall inform the public, in a form satisfactory to the Director, when an annual report has been prepared and identify how a free copy can be obtained.

6.10. The Licensee shall make a copy of each annual report available to the public at no charge on an internet website within two weeks of the issuance of the report, unless otherwise approved by the Director. The annual report shall remain available to the public for at least one year.

6.11. The Licensee shall maintain and submit an Advisory Notification Plan to the Drinking Water Officer by May 1st of each year. The plan must include a detailed description of communication tools and methods to be used to notify the public of a drinking water emergency, considering key contacts, fan-outs, critical customers, susceptible or difficult-to-reach sub-groups, and template notices where applicable.

Are your operators trained?

- Yes, all our operators were trained at Red River College in each field (water treatment, water distribution, wastewater collection and wastewater treatment) to the level/classification meeting our operations licences. To make sure we keep up with changes in these fields, regulations, new products, testing, etc. we are taking training

and extra courses every year as part of our CEU program. CEU's are continuing education units which we are required to obtain every year.

- **What is free and total? And how do you know how much chlorine to make the water safe?**

  - Free chlorine is the amount of unused chlorine in the water and total chlorine is the total amount of chlorine that was in the water, the difference between the two is how much chlorine was needed to treat the water and make it safe. The Drinking Water Safety Acts requires that we maintain no less than 0.5 mg/l of free chlorine at the water plant at all times as well as 0.1 mg/l in the piping/distribution system. The chart below is our free and total readings at the water plant for everyday of the year. The second chart shows our bi weekly readings of the distribution system.

	January		February		March		April		May		June		July		August		September		October		November		December	
	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total	Free	total
1	.66	.75	.62	.72	.60	.70	.58	.70	.65	.74	.76	.86	.70	.82	.70	.80	.56	.67	.71	.85	.60	.70	.60	.71
2	.63	.76	.65	.77	.62	.69	.63	.71	.68	.79	.78	.89	.65	.78	.73	.84	.60	.72	.60	.73	.62	.72	.59	.70
3	.66	.74	.64	.79	.65	.76	.57	.69	.72	.86	.76	.93	.65	.79	.75	.85	.57	.69	.64	.76	.62	.71	.56	.68
4	.64	.69	.69	.80	.60	.73	.56	.69	.74	.86	.77	.89	.54	.64	.86	.96	.65	.79	.68	.78	.61	.72	.54	.65
5	.60	.72	.61	.72	.61	.75	.56	.68	.72	.85	.82	.98	.63	.77	.64	.78	.69	.83	.67	.76	.67	.86	.64	.75
6	.57	.66	.66	.78	.57	.69	.62	.72	.70	.86	.63	.78	.61	.71	.58	.72	.68	.83	.62	.75	.64	.82	.67	.85
7	.58	.67	.63	.72	.55	.65	.64	.77	.69	.80	.67	.79	.65	.77	.67	.77	.63	.75	.57	.68	.68	.83	.64	.82
8	.60	.72	.62	.76	.58	.70	.67	.69	.76	.87	.61	.73	.64	.78	.68	.82	.62	.75	.55	.67	.69	.83	.62	.79
9	.59	.70	.63	.78	.63	.74	.68	.81	.74	.83	.65	.77	.65	.80	.66	.78	.58	.71	.51	.62	.69	.84	.71	.83
10	.57	.67	.59	.73	.64	.74	.67	.80	.69	.85	.62	.79	.65	.78	.63	.75	.56	.69	.59	.72	.70	.84	.66	.81
11	.59	.68	.63	.76	.62	.73	.64	.75	.66	.78	.68	.85	.65	.78	.52	.62	.69	.83	.63	.76	.68	.70	.64	.79
12	.64	.78	.67	.79	.61	.70	.67	.79	.73	.86	.75	.89	.66	.79	.72	.84	.69	.84	.66	.79	.68	.83	.69	.79
13	.62	.78	.67	.80	.66	.77	.66	.80	.76	.89	.72	.91	.67	.78	.71	.85	.74	.85	.62	.76	.68	.81	.68	.81
14	.74	.80	.69	.84	.67	.80	.62	.75	.69	.82	.70	.92	.90	1.03	.61	.75	.71	.87	.63	.79	.59	.71	.69	.79
15	.63	.76	.62	.72	.66	.78	.62	.76	.66	.79	.76	.90	.52	.63	.57	.70	.72	.85	.69	.79	.57	.68	.68	.81
16	.65	.75	.60	.74	.61	.71	.65	.76	.63	.77	.74	.84	.67	.80	.63	.74	.74	.90	.62	.76	.64	.78	.67	.76
17	.67	.78	.66	.74	.63	.70	.63	.75	.65	.76	.64	.78	.64	.77	.74	.86	.74	.89	.61	.77	.64	.75	.63	.74
18	.69	.79	.64	.75	.62	.74	.63	.74	.63	.75	.73	.85	.68	.80	.69	.81	.60	.74	.57	.70	.64	.77	.67	.76
19	.67	.78	.64	.79	.66	.79	.58	.67	.64	.76	.78	.90	.62	.75	.68	.80	.62	.76	.57	.66	.63	.77	.78	.91
20	.63	.74	.66	.79	.65	.78	.55	.71	.66	.78	.64	.77	.69	.80	.58	.72	.63	.78	.53	.67	.68	.79	.68	.79
21	.64	.76	.65	.78	.80	.93	.62	.75	.55	.65	.65	.73	.73	.85	.64	.79	.64	.74	.52	.67	.67	.78	.66	.75
22	.69	.77	.69	.80	.82	.96	.70	.80	.64	.78	.62	.73	.70	.81	.68	.81	.65	.77	.67	.83	.62	.74	.64	.77
23	.72	.86	.60	.73	.78	.90	.74	.86	.62	.77	.61	.72	.65	.79	.72	.88	.61	.72	.62	.74	.65	.78	.70	.77
24	.65	.78	.63	.73	.74	.87	.70	.86	.61	.73	.60	.73	.69	.79	.71	.82	.57	.69	.63	.72	.61	.74	.62	.74
25	.65	.81	.62	.76	.75	.87	.75	.91	.74	.87	.65	.77	.71	.80	.71	.82	.58	.69	.67	.78	.58	.70	.61	.74
26	.66	.79	.65	.74	.72	.82	.83	.95	.76	.90	.66	.78	.58	.65	.66	.80	.59	.74	.68	.77	.58	.71	.58	.72
27	.65	.78	.57	.69	.67	.79	.55	.65	.82	.95	.63	.74	.60	.71	.76	.89	.59	.71	.63	.75	.54	.64	.60	.71
28	.62	.75	.60	.73	.63	.79	.58	.71	.75	.90	.62	.70	.68	.79	.72	.86	.57	.67	.65	.77	.62	.73	.52	.62
29	.55	.64	.62	.74	.64	.76	.62	.74	.75	.92	.64	.75	.73	.84	.73	.85	.62	.75	.58	.72	.62	.72	.69	.82
30	.56	.70			.61	.75	.68	.78	.77	.96	.68	.81	.66	.78	.63	.78	.66	.79	.64	.76	.62	.72	.63	.79

31	.62	.76			.60	.70			.75	.85			.69	.83	.62	.73			.57	.66			.60	.73

Date	Location	Free	Total	Date	Location	Free	total
Jan 11	Maint yard	.50	.59	**Jul 24**	Bcg tap	.51	.61
Jan 25	Maint office	.57	.60	**Sep 4**	Seasonal tv	.53	.66
feb 8	Lunch room	.51	.62	**Sep 18**	Maint yard	.59	.67
Feb 22	Lunch room	.51	.68	**Oct 3**	Mall	.60	.67
Mar 6	Maint yard	.49	.57	**Oct 16**	Lunch room	.42	.57
Mar 21	Maint yard	.54	.65	**Oct 30**	Maint yard	.45	.56
Apr 4	Maint yard	.46	.53	**Nov 13**	Lunch room	.22	.38
Apr 18	Maint yard	.49	.60	**Nov 27**	Lunch room	.35	.50
May 2	Bcg y5	.53	.62	**Dec 10**	Lunch room	.45	.60
May 16	Seasonal shower	.52	.62	**Dec 20**	Mens bunkhouse	.64	.74
May 30	Lakeshore bay 4	.70	.82	**Dec 22**	Mens bunkhouse	.54	.63
Jun 12	Seasonal end tap	.51	.67				
Jun 27	Maint yard	.56	.61				
Jul 9	Maint yard	.51	.63				

Below are lab results for samples sent to ALS over the year

Collection Date	TC	EC	Sample Identification
11-Jan-24	<1	<1	FALCON LAKE 1 - RAW
11-Jan-24	<1	<1	FALCON LAKE 2 - TREATED
11-Jan-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ MINT YARD
25-Jan-24	<1	<1	FALCON LAKE 1 - RAW
25-Jan-24	<1	<1	FALCON LAKE 2 - TREATED
25-Jan-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ maint office
08-Feb-24	<1	<1	FALCON LAKE 1 - RAW
08-Feb-24	<1	<1	FALCON LAKE 2 - TREATED
08-Feb-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lunch room
22-Feb-24	<1	<1	FALCON LAKE 1 - RAW
22-Feb-24	<1	<1	FALCON LAKE 2 - TREATED
22-Feb-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ LUNCHROOM
06-Mar-24	<1	<1	FALCON LAKE 1 - RAW
06-Mar-24	<1	<1	FALCON LAKE 2 - TREATED
06-Mar-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ MAINT YARD
21-Mar-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ MAIN OFFICE
21-Mar-24	<1	<1	FALCON LAKE 2 - TREATED
21-Mar-24	<1	<1	FALCON LAKE 1 - RAW
04-Apr-24	<1	<1	FALCON LAKE 1 - RAW
04-Apr-24	<1	<1	FALCON LAKE 2 - TREATED
04-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ MAIT YARD
18-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ MAINT YARD
18-Apr-24	<1	<1	FALCON LAKE 1 - RAW
18-Apr-24	<1	<1	FALCON LAKE 2 - TREATED
25-Apr-24	<1	<1	FALCON LAKE 1 - RAW
25-Apr-24	<1	<1	FALCON LAKE 2 - TREATED
25-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ BCG Y5
25-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ SHOPPING CENTER
25-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ LAKE SHORE BAY 4
26-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ SHOPPING CENTER
26-Apr-24	<1	<1	FALCON LAKE 2 - TREATED
26-Apr-24	<1	<1	FALCON LAKE 1 - RAW
26-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ BCG SITE YS
26-Apr-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ LAKSHORE BAY 4
02-May-24	<1	<1	FALCON LAKE 1 - RAW
02-May-24	<1	<1	FALCON LAKE 2 - TREATED
02-May-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ BCG Y5
02-May-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Shopping Center
02-May-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lakeshore Bay 4
16-May-24	<1	<1	FALCON LAKE 2 - TREATED
16-May-24	<1	<1	FALCON LAKE 1 - RAW
16-May-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Seasonal Shower
30-May-24	<1	<1	FALCON LAKE 1 - RAW
30-May-24	<1	<1	FALCON LAKE 2 - TREATED
30-May-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ LAKESHORE BAY 4
12-Jun-24	<1	<1	Falcon Lake 1 - Raw
12-Jun-24	<1	<1	Falcon Lake 2 - Treated

12-Jun-24	<1	<1	Falcon Lake 3 - Dist @ Seasonal End Tap
27-Jun-24	<1	<1	FALCON LAKE 2 - TREATED
27-Jun-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Mint Yard
27-Jun-24	<1	<1	FALCON LAKE 1 - RAW
09-Jul-24	<1	<1	FALCON LAKE 2 - TREATED
09-Jul-24	<1	<1	FALCON LAKE 1 - RAW
09-Jul-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @
24-Jul-24	<1	<1	FALCON LAKE 1 - RAW
24-Jul-24	<1	<1	FALCON LAKE 2 - TREATED
24-Jul-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @
07-Aug-24	<1	<1	FALCON LAKE 1 - RAW
07-Aug-24	<1	<1	FALCON LAKE 2 - TREATED
07-Aug-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Maint Yard
21-Aug-24	<1	<1	FALCON LAKE 1 - RAW
21-Aug-24	<1	<1	FALCON LAKE 2 - TREATED
21-Aug-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lakeshore Bay 4 Tap
04-Sep-24	<1	<1	FALCON LAKE 1 - RAW
04-Sep-24	<1	<1	FALCON LAKE 2 - TREATED
04-Sep-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Seasonal TV
18-Sep-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Maint Yard
18-Sep-24	<1	<1	FALCON LAKE 1 - RAW
18-Sep-24	<1	<1	FALCON LAKE 2 - TREATED
03-Oct-24	<1	<1	FALCON LAKE 1 - RAW
03-Oct-24	<1	<1	FALCON LAKE 2 - TREATED
03-Oct-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Mall
16-Oct-24	<1	<1	FALCON LAKE 1 - RAW
16-Oct-24	<1	<1	FALCON LAKE 2 - TREATED
16-Oct-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @Lunch Room
30-Oct-24	<1	<1	FALCON LAKE 2 - TREATED
30-Oct-24	<1	<1	FALCON LAKE 1 - RAW
30-Oct-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @Maint Yard
13-Nov-24	<1	<1	FALCON LAKE 1 - RAW
13-Nov-24	<1	<1	FALCON LAKE 2 - TREATED
13-Nov-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lunch room
27-Nov-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lunch Room
27-Nov-24	<1	<1	FALCON LAKE 1 - RAW
27-Nov-24	<1	<1	FALCON LAKE 2 - TREATED
10-Dec-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Lunch Room
10-Dec-24	<1	<1	FALCON LAKE 1 - RAW
10-Dec-24	<1	<1	FALCON LAKE 2 - TREATED
20-Dec-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @Girls Bunkhouse
20-Dec-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @Marit Yard Office
20-Dec-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @Mens Bunkhouse
22-Dec-24	<1	<1	FALCON LAKE 1 - RAW
22-Dec-24	<1	<1	FALCON LAKE 2 - TREATED
22-Dec-24	<1	<1	FALCON LAKE 3 - DISTRIBUTION @ Mens Bunk House

What happens if you fail to meet any of these regulations?

- With constant computer monitoring of the chlorine levels, we are warned of the chlorine becoming too low before it ever gets below the regulation and the issue is attended to immediately and corrected. If any lab samples come back with positive results then the laboratory immediately notifies us as well as the

Water Officer. With a positive result for bacteria, The Office of Drinking Water and / or Medical Officer of Health will provide instructions on how to proceed.

- **Will we be notified if a problem occurs?**

    - Yes, if for any reason a boil water advisory is put in place then you will be notified via call/e-mail list and signage will be posted around town. The Whiteshell cottagers association will also immediately be notified and can reach residents through social platforms.

- **Is there anything else in the water that should be monitored or regulations you should meet?**

    - Our main focus is the disinfection and bacteria in the water because that has the most concerning effect to the publics' direct health, but yes there is much more that we monitor. Things that don't directly affect your health like how the water looks, tastes, smells, etc. is monitored through a full lab analysis to insure their limits are within the regulated guidelines. Below is a full analytical report on our water from the laboratory, this includes raw water, treated water and distribution water giving any limits set and the results of our water.

ANALYTICAL REPORT

Physical Tests (WATER)

				ALS ID	L2749818-1		L2749818-2	
				Sampled Date	30-MAR-23		30-MAR-23	
				Sampled Time	15:00		15:00	
				Sample ID	FALCON LAKE 1 - RAW		FALCON LAKE 2 - TREATED	
Analyte	Unit	Guide Limit #1	Guide Limit #2					
Colour, True	CU	15	-		33.6		<5.0	
Conductivity	umhos/cm	-	-		717		707	
Hardness (as CaCO3)	mg/L	-	-		221	HTC	209	HTC
Langelier Index (4 C)	No Unit	-	-		-0.37		-0.083	
Langelier Index (60 C)	No Unit	-	-		0.39		0.68	
pH	pH units	7.00-10.5	-		7.37		7.70	
Total Dissolved Solids	mg/L	500	-		410		404	
Transmittance, UV (254 nm)	%T/cm	-	-		91.8		93.3	
Turbidity	NTU	-	-		36.2	HTDC	0.13	HTDC

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)
#1: GCDWQ - Aesthetic Objective/Other Value (Jan.2020)
#2: GCDWQ - Maximum Acceptable Concentrations (MACs-Jan.2020)

Anions and Nutrients (WATER)

				ALS ID	L2749818-1	L2749818-2
				Sampled Date	30-MAR-23	30-MAR-23
				Sampled Time	15:00	15:00
				Sample ID	FALCON LAKE 1 - RAW	FALCON LAKE 2 - TREATED
Analyte	Unit	Guide Limit #1	Guide Limit #2			
Alkalinity, Total (as CaCO3)	mg/L	-	-		135	131
Ammonia, Total (as N)	mg/L	-	-		0.025	<0.010
Bicarbonate (HCO3)	mg/L	-	-		164	160
Bromide (Br)	mg/L	-	-		0.063	<0.010
Carbonate (CO3)	mg/L	-	-		<0.60	<0.60
Chloride (Cl)	mg/L	250	-		122	121
Fluoride (F)	mg/L	-	1.5		0.061	0.069
Hydroxide (OH)	mg/L	-	-		<0.34	<0.34
Nitrate (as N)	mg/L	-	10		0.152	0.206
Nitrite (as N)	mg/L	-	1		<0.0010	<0.0010
Sulfate (SO4)	mg/L	500	-		24.8	24.7

Federal Guidelines for Canadian Drinking Water Quality (MAR, 2021)
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Organic / Inorganic Carbon (WATER)

				ALS ID	L2749818-1	L2749818-2
				Sampled Date	30-MAR-23	30-MAR-23
				Sampled Time	15:00	15:00
				Sample ID	FALCON LAKE 1 - RAW	FALCON LAKE 2 - TREATED
Analyte	Unit	Guide Limit #1	Guide Limit #2			
Dissolved Organic Carbon	mg/L	-	-		3.87	3.27
Total Organic Carbon	mg/L	-	-		4.09	4.28

Total Metals (WATER)

Analyte	Unit	Guide Limit #1	Guide Limit #2	ALS ID Sampled Date Sampled Time Sample ID L2749818-1 30-MAR-23 15:00 FALCON LAKE 1 - RAW	ALS ID Sampled Date Sampled Time Sample ID L2749818-2 30-MAR-23 15:00 FALCON LAKE 2 - TREATED
Aluminum (Al)-Total	mg/L	0.1	2.9	<0.0030	<0.0030
Antimony (Sb)-Total	mg/L	-	0.006	<0.00010	<0.00010
Arsenic (As)-Total	mg/L	-	0.01	0.00116	<0.00010
Barium (Ba)-Total	mg/L	-	2	0.0496	0.0427
Beryllium (Be)-Total	mg/L	-	-	<0.00010	<0.00010
Bismuth (Bi)-Total	mg/L	-	-	<0.000050	<0.000050
Boron (B)-Total	mg/L	-	5	0.017	0.018
Cadmium (Cd)-Total	mg/L	-	0.005	0.0000150	<0.0000050
Calcium (Ca)-Total	mg/L	-	-	65.2	61.0
Cesium (Cs)-Total	mg/L	-	-	0.00107	0.00106
Chromium (Cr)-Total	mg/L	-	0.05	<0.00010	0.00011
Cobalt (Co)-Total	mg/L	-	-	0.00047	<0.00010
Copper (Cu)-Total	mg/L	1	2	0.00437	0.0111
Iron (Fe)-Total	mg/L	0.3	-	4.04	0.017
Lead (Pb)-Total	mg/L	-	0.005	0.000764	0.000401
Lithium (Li)-Total	mg/L	-	-	0.0066	0.0063
Magnesium (Mg)-Total	mg/L	-	-	14.2	13.8
Manganese (Mn)-Total	mg/L	0.02	0.12	0.250	0.00056
Molybdenum (Mo)-Total	mg/L	-	-	0.000175	0.000118
Nickel (Ni)-Total	mg/L	-	-	0.00294	0.00225
Phosphorus (P)-Total	mg/L	-	-	<0.050	<0.050
Potassium (K)-Total	mg/L	-	-	3.19	3.12
Rubidium (Rb)-Total	mg/L	-	-	0.00859	0.00842
Selenium (Se)-Total	mg/L	-	0.05	0.000123	0.000123
Silicon (Si)-Total	mg/L	-	-	11.2	10.6
Silver (Ag)-Total	mg/L	-	-	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	200	-	47.4	51.4
Strontium (Sr)-Total	mg/L	-	7	0.144	0.135
Tellurium (Te)-Total	mg/L	-	-	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	-	-	<0.000010	<0.000010
Thorium (Th)-Total	mg/L	-	-	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	-	-	<0.00010	<0.00010
Titanium (Ti)-Total	mg/L	-	-	<0.00030	<0.00030

Total Metals (WATER)

Analyte	Unit	Guide Limit #1	Guide Limit #2	ALS ID Sampled Date Sampled Time Sample ID L2749818-1 30-MAR-23 15:00 FALCON LAKE 1 - RAW	ALS ID Sampled Date Sampled Time Sample ID L2749818-2 30-MAR-23 15:00 FALCON LAKE 2 - TREATED
Tungsten (W)-Total	mg/L	-	-	<0.00010	<0.00010
Uranium (U)-Total	mg/L	-	0.02	0.000384	0.000382
Vanadium (V)-Total	mg/L	-	-	<0.00050	<0.00050
Zinc (Zn)-Total	mg/L	5	-	0.0730	0.0226
Zirconium (Zr)-Total	mg/L	-	-	<0.00020	<0.00020

Volatile Organic Compounds (WATER)

				ALS ID	L2749818-1
				Sampled Date	30-MAR-23
				Sampled Time	15:00
				Sample ID	**FALCON LAKE 1 - RAW**
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Benzene	mg/L	-	0.005		<0.00050
1,1-dichloroethene	mg/L	-	0.014		<0.00050
Dichloromethane	mg/L	-	0.05		<0.0050
Ethylbenzene	mg/L	0.0016	0.14		<0.00050
MTBE	mg/L	0.015	-		<0.00050
Tetrachloroethene	mg/L	-	0.01		<0.00050
Toluene	mg/L	0.024	0.06		<0.00050
Trichloroethene	mg/L	-	0.005		<0.00050
o-Xylene	mg/L	-	-		<0.00050
M+P-Xylenes	mg/L	-	-		<0.00040
Xylenes (Total)	mg/L	0.02	0.09		<0.00064
Surrogate: 4-Bromofluorobenzene (SS)	%	-	-		78.4
Surrogate: 1,4-Difluorobenzene (SS)	%	-	-		104.7

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Detection Limit for result exceeds Guide Limit. Assessment against Guide Limit cannot be made.
Analytical result for this parameter exceeds Guide Limit listed on this report.
* Please refer to the Reference Information section for an explanation of any qualifiers noted.

Quality Control Report

Client: Conservation and Climate - Falcon Lake
Falcon Lake - PWS Box 40
Falcon Lake MB R0E 0N0

Contact: STEVE KUHARSKI

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-TITR-WP	Water							
Batch R5941937								
WG3782436-5 DUP		**L2749794-1**						
Alkalinity, Total (as CaCO3)		52.9	53.0		mg/L	0.2	20	03-APR-23
WG3782436-4 LCS								
Alkalinity, Total (as CaCO3)			102.0		%		85-115	03-APR-23
WG3782436-1 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	03-APR-23
BR-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-2 LCS								
Bromide (Br)			101.2		%		85-115	31-MAR-23
WG3782366-1 MB								
Bromide (Br)			<0.010		mg/L		0.01	31-MAR-23
C-DOC-HTC-WP	Water							
Batch R5942337								
WG3782502-3 DUP		**L2749821-1**						
Dissolved Organic Carbon		5.84	5.61		mg/L	4.0	20	05-APR-23
WG3782502-2 LCS								
Dissolved Organic Carbon			94.3		%		80-120	05-APR-23
WG3782502-1 MB								
Dissolved Organic Carbon			<0.50		mg/L		0.5	05-APR-23
WG3782502-4 MS		**L2749821-2**						
Dissolved Organic Carbon			N/A	MS-B	%		-	05-APR-23
C-TOC-HTC-WP	Water							
Batch R5942338								
WG3782503-3 DUP		**L2749821-1**						
Total Organic Carbon		5.32	4.87		mg/L	8.8	20	05-APR-23
WG3782503-2 LCS								
Total Organic Carbon			90.9		%		80-120	05-APR-23
WG3782503-1 MB								
Total Organic Carbon			<0.50		mg/L		0.5	05-APR-23
WG3782503-4 MS		**L2749821-2**						
Total Organic Carbon			89.2		%		70-130	05-APR-23
CL-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-3 DUP		**L2749794-1**						
Chloride (Cl)		11.9	11.9		mg/L	0.0	20	31-MAR-23
WG3782366-2 LCS								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-2 LCS								
Chloride (Cl)			98.6		%		90-110	31-MAR-23
WG3782366-1 MB								
Chloride (Cl)			<0.10		mg/L		0.1	31-MAR-23
WG3782366-4 MS		**L2749794-1**						
Chloride (Cl)			101.3		%		75-125	31-MAR-23
COLOUR-TRUE-WP	Water							
Batch R5941716								
WG3782404-3 DUP		**L2749821-2**						
Colour, True		<5.0	<5.0	RPD-NA	CU	N/A	20	31-MAR-23
WG3782404-2 LCS								
Colour, True			99.6		%		85-115	31-MAR-23
WG3782404-1 MB								
Colour, True			<5.0		CU		5	31-MAR-23
EC-WP	Water							
Batch R5941937								
WG3782436-5 DUP		**L2749794-1**						
Conductivity		157	157		umhos/cm	0.3	10	03-APR-23
WG3782436-3 LCS								
Conductivity			101.8		%		90-110	03-APR-23
WG3782436-1 MB								
Conductivity			<1.0		umhos/cm		1	03-APR-23
F-IC-N-WP	Water							
Batch R5941736								
WG3782366-3 DUP		**L2749794-1**						
Fluoride (F)		0.061	0.061		mg/L	0.2	20	31-MAR-23
WG3782366-2 LCS								
Fluoride (F)			102.5		%		90-110	31-MAR-23
WG3782366-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	31-MAR-23
WG3782366-4 MS		**L2749794-1**						
Fluoride (F)			104.7		%		75-125	31-MAR-23
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-4 DUP		**WG3782392-3**						
Aluminum (Al)-Total		0.283	0.280		mg/L	1.2	20	03-APR-23
Antimony (Sb)-Total		0.00011	<0.00010	RPD-NA	mg/L	N/A	20	03-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-4 DUP		**WG3782392-3**						
Arsenic (As)-Total		0.00423	0.00426		mg/L	0.8	20	03-APR-23
Barium (Ba)-Total		0.0175	0.0174		mg/L	0.3	20	03-APR-23
Beryllium (Be)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	03-APR-23
Bismuth (Bi)-Total		0.00110	0.00105		mg/L	4.9	20	03-APR-23
Boron (B)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	03-APR-23
Cadmium (Cd)-Total		0.0000082	0.0000090		mg/L	9.1	20	03-APR-23
Calcium (Ca)-Total		17.3	17.6		mg/L	1.7	20	03-APR-23
Cesium (Cs)-Total		0.000056	0.000053		mg/L	5.7	20	03-APR-23
Chromium (Cr)-Total		0.00066	0.00064		mg/L	2.3	20	03-APR-23
Cobalt (Co)-Total		0.00046	0.00047		mg/L	1.3	20	03-APR-23
Copper (Cu)-Total		0.316	0.325		mg/L	2.9	20	03-APR-23
Iron (Fe)-Total		0.852	0.867		mg/L	1.7	20	03-APR-23
Lead (Pb)-Total		0.205	0.205		mg/L	0.1	20	03-APR-23
Lithium (Li)-Total		0.0024	0.0023		mg/L	4.3	20	03-APR-23
Magnesium (Mg)-Total		4.35	4.35		mg/L	0.1	20	03-APR-23
Manganese (Mn)-Total		0.362	0.367		mg/L	1.4	20	03-APR-23
Molybdenum (Mo)-Total		0.000196	0.000197		mg/L	0.6	20	03-APR-23
Nickel (Ni)-Total		0.00160	0.00159		mg/L	0.8	20	03-APR-23
Potassium (K)-Total		1.40	1.42		mg/L	1.4	20	03-APR-23
Phosphorus (P)-Total		0.108	0.096		mg/L	12	20	03-APR-23
Rubidium (Rb)-Total		0.00318	0.00326		mg/L	2.6	20	03-APR-23
Selenium (Se)-Total		0.000201	0.000189		mg/L	6.1	20	03-APR-23
Silicon (Si)-Total		2.90	2.89		mg/L	0.3	20	03-APR-23
Silver (Ag)-Total		0.000023	0.000022		mg/L	7.4	20	03-APR-23
Sodium (Na)-Total		7.24	7.25		mg/L	0.2	20	03-APR-23
Strontium (Sr)-Total		0.0343	0.0356		mg/L	3.6	20	03-APR-23
Tellurium (Te)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	03-APR-23
Thallium (Tl)-Total		0.000023	0.000023		mg/L	0.1	20	03-APR-23
Thorium (Th)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	03-APR-23
Tin (Sn)-Total		0.00082	0.00083		mg/L	0.5	20	03-APR-23
Titanium (Ti)-Total		0.00908	0.00868		mg/L	4.5	20	03-APR-23
Tungsten (W)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	03-APR-23
Uranium (U)-Total		0.000124	0.000115		mg/L			03-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-4 DUP		**WG3782392-3**						
Uranium (U)-Total		0.000124	0.000115		mg/L	6.9	20	03-APR-23
Vanadium (V)-Total		0.00117	0.00115		mg/L	1.0	20	03-APR-23
Zinc (Zn)-Total		0.408	0.415		mg/L	1.8	20	03-APR-23
Zirconium (Zr)-Total		<0.00020	<0.00020	RPD-NA	mg/L	N/A	20	03-APR-23
WG3782392-2 LCS								
Aluminum (Al)-Total			96.6		%		80-120	03-APR-23
Antimony (Sb)-Total			105.3		%		80-120	03-APR-23
Arsenic (As)-Total			103.5		%		80-120	03-APR-23
Barium (Ba)-Total			95.4		%		80-120	03-APR-23
Beryllium (Be)-Total			96.9		%		80-120	03-APR-23
Bismuth (Bi)-Total			93.9		%		80-120	03-APR-23
Boron (B)-Total			102.5		%		80-120	03-APR-23
Cadmium (Cd)-Total			95.9		%		80-120	03-APR-23
Calcium (Ca)-Total			93.5		%		80-120	03-APR-23
Cesium (Cs)-Total			97.1		%		80-120	03-APR-23
Chromium (Cr)-Total			95.5		%		80-120	03-APR-23
Cobalt (Co)-Total			96.3		%		80-120	03-APR-23
Copper (Cu)-Total			96.2		%		80-120	03-APR-23
Iron (Fe)-Total			95.5		%		80-120	03-APR-23
Lead (Pb)-Total			95.3		%		80-120	03-APR-23
Lithium (Li)-Total			92.6		%		80-120	03-APR-23
Magnesium (Mg)-Total			104.9		%		80-120	03-APR-23
Manganese (Mn)-Total			96.5		%		80-120	03-APR-23
Molybdenum (Mo)-Total			105.2		%		80-120	03-APR-23
Nickel (Ni)-Total			95.5		%		80-120	03-APR-23
Potassium (K)-Total			97.3		%		80-120	03-APR-23
Phosphorus (P)-Total			106.7		%		80-120	03-APR-23
Rubidium (Rb)-Total			98.3		%		80-120	03-APR-23
Selenium (Se)-Total			104.0		%		80-120	03-APR-23
Silicon (Si)-Total			109.9		%		80-120	03-APR-23
Silver (Ag)-Total			90.0		%		80-120	03-APR-23
Sodium (Na)-Total			96.7		%		80-120	03-APR-23
Strontium (Sr)-Total			97.9		%		80-120	03-APR-23
Tellurium (Te)-Total			99.9				80-120	

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-2 LCS								
Tellurium (Te)-Total			99.9		%		80-120	03-APR-23
Thallium (Tl)-Total			95.0		%		80-120	03-APR-23
Thorium (Th)-Total			92.4		%		80-120	03-APR-23
Tin (Sn)-Total			102.4		%		80-120	03-APR-23
Titanium (Ti)-Total			101.4		%		80-120	03-APR-23
Tungsten (W)-Total			103.8		%		80-120	03-APR-23
Uranium (U)-Total			96.5		%		80-120	03-APR-23
Vanadium (V)-Total			96.0		%		80-120	03-APR-23
Zinc (Zn)-Total			95.4		%		80-120	03-APR-23
Zirconium (Zr)-Total			100.5		%		80-120	03-APR-23
WG3782392-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	03-APR-23
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	03-APR-23
Arsenic (As)-Total			<0.00010		mg/L		0.0001	03-APR-23
Barium (Ba)-Total			<0.00010		mg/L		0.0001	03-APR-23
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	03-APR-23
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	03-APR-23
Boron (B)-Total			<0.010		mg/L		0.01	03-APR-23
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	03-APR-23
Calcium (Ca)-Total			<0.050		mg/L		0.05	03-APR-23
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	03-APR-23
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	03-APR-23
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	03-APR-23
Copper (Cu)-Total			<0.00050		mg/L		0.0005	03-APR-23
Iron (Fe)-Total			<0.010		mg/L		0.01	03-APR-23
Lead (Pb)-Total			<0.000050		mg/L		0.00005	03-APR-23
Lithium (Li)-Total			<0.0010		mg/L		0.001	03-APR-23
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	03-APR-23
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	03-APR-23
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	03-APR-23
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	03-APR-23
Potassium (K)-Total			<0.050		mg/L		0.05	03-APR-23
Phosphorus (P)-Total			<0.030		mg/L		0.03	03-APR-23
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	03-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-1 MB								
Selenium (Se)-Total			<0.000050		mg/L		0.00005	03-APR-23
Silicon (Si)-Total			<0.10		mg/L		0.1	03-APR-23
Silver (Ag)-Total			<0.000010		mg/L		0.00001	03-APR-23
Sodium (Na)-Total			<0.050		mg/L		0.05	03-APR-23
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	03-APR-23
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	03-APR-23
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	03-APR-23
Thorium (Th)-Total			<0.00010		mg/L		0.0001	03-APR-23
Tin (Sn)-Total			<0.00010		mg/L		0.0001	03-APR-23
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	03-APR-23
Tungsten (W)-Total			<0.00010		mg/L		0.0001	03-APR-23
Uranium (U)-Total			<0.000010		mg/L		0.00001	03-APR-23
Vanadium (V)-Total			<0.00050		mg/L		0.0005	03-APR-23
Zinc (Zn)-Total			<0.0030		mg/L		0.003	03-APR-23
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	03-APR-23
WG3782392-5 MS		**WG3782392-3**						
Aluminum (Al)-Total			N/A	MS-B	%		-	03-APR-23
Antimony (Sb)-Total			93.4		%		70-130	03-APR-23
Arsenic (As)-Total			105.0		%		70-130	03-APR-23
Barium (Ba)-Total			103.1		%		70-130	03-APR-23
Beryllium (Be)-Total			103.8		%		70-130	03-APR-23
Bismuth (Bi)-Total			109.5		%		70-130	03-APR-23
Boron (B)-Total			99.5		%		70-130	03-APR-23
Cadmium (Cd)-Total			107.1		%		70-130	03-APR-23
Calcium (Ca)-Total			N/A	MS-B	%		-	03-APR-23
Cesium (Cs)-Total			109.5		%		70-130	03-APR-23
Chromium (Cr)-Total			107.6		%		70-130	03-APR-23
Cobalt (Co)-Total			107.2		%		70-130	03-APR-23
Copper (Cu)-Total			N/A	MS-B	%		-	03-APR-23
Iron (Fe)-Total			108.0		%		70-130	03-APR-23
Lead (Pb)-Total			N/A	MS-B	%		-	03-APR-23
Lithium (Li)-Total			100.4		%		70-130	03-APR-23
Magnesium (Mg)-Total			N/A	MS-B	%		-	03-APR-23
Manganese (Mn)-Total			N/A	MS-B	%		-	03-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5941997								
WG3782392-5 MS		**WG3782392-3**						
Molybdenum (Mo)-Total			93.3		%		70-130	03-APR-23
Nickel (Ni)-Total			105.5		%		70-130	03-APR-23
Potassium (K)-Total			105.4		%		70-130	03-APR-23
Phosphorus (P)-Total			108.6		%		70-130	03-APR-23
Rubidium (Rb)-Total			110.3		%		70-130	03-APR-23
Selenium (Se)-Total			108.1		%		70-130	03-APR-23
Silicon (Si)-Total			93.8		%		70-130	03-APR-23
Silver (Ag)-Total			98.3		%		70-130	03-APR-23
Sodium (Na)-Total			N/A	MS-B	%		-	03-APR-23
Strontium (Sr)-Total			N/A	MS-B	%		-	03-APR-23
Tellurium (Te)-Total			90.1		%		70-130	03-APR-23
Thallium (Tl)-Total			103.5		%		70-130	03-APR-23
Thorium (Th)-Total			109.7		%		70-130	03-APR-23
Tin (Sn)-Total			92.3		%		70-130	03-APR-23
Titanium (Ti)-Total			94.8		%		70-130	03-APR-23
Tungsten (W)-Total			93.7		%		70-130	03-APR-23
Uranium (U)-Total			104.0		%		70-130	03-APR-23
Vanadium (V)-Total			109.1		%		70-130	03-APR-23
Zinc (Zn)-Total			N/A	MS-B	%		-	03-APR-23
Zirconium (Zr)-Total			95.3		%		70-130	03-APR-23
NH3-COL-WP	Water							
Batch R5941757								
WG3782413-3 DUP		**L2749794-1**						
Ammonia, Total (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	31-MAR-23
WG3782413-2 LCS								
Ammonia, Total (as N)			100.3		%		85-115	31-MAR-23
WG3782413-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	31-MAR-23
WG3782413-4 MS		**L2749794-1**						
Ammonia, Total (as N)			87.3		%		75-125	31-MAR-23
NO2-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-3 DUP		**L2749794-1**						
Nitrite (as N)		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	31-MAR-23
WG3782366-2 LCS								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-2 LCS								
Nitrite (as N)			100.3		%		90-110	31-MAR-23
WG3782366-1 MB								
Nitrite (as N)			<0.0010		mg/L		0.001	31-MAR-23
WG3782366-4 MS		**L2749794-1**						
Nitrite (as N)			101.7		%		75-125	31-MAR-23
NO3-L-IC-N-WP	Water							
Batch R5941736								
WG3782366-3 DUP		**L2749794-1**						
Nitrate (as N)		0.0905	0.0887		mg/L	2.0	20	31-MAR-23
WG3782366-2 LCS								
Nitrate (as N)			101.0		%		90-110	31-MAR-23
WG3782366-1 MB								
Nitrate (as N)			<0.0050		mg/L		0.005	31-MAR-23
WG3782366-4 MS		**L2749794-1**						
Nitrate (as N)			102.4		%		75-125	31-MAR-23
PH-WP	Water							
Batch R5941937								
WG3782436-5 DUP		**L2749794-1**						
pH		7.72	7.74	J	pH units	0.02	0.2	03-APR-23
WG3782436-2 LCS								
pH			6.97		pH units		6.9-7.1	03-APR-23
SO4-IC-N-WP	Water							
Batch R5941736								
WG3782366-3 DUP		**L2749794-1**						
Sulfate (SO4)		3.98	3.99		mg/L	0.1	20	31-MAR-23
WG3782366-2 LCS								
Sulfate (SO4)			101.3		%		90-110	31-MAR-23
WG3782366-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	31-MAR-23
WG3782366-4 MS		**L2749794-1**						
Sulfate (SO4)			102.3		%		75-125	31-MAR-23
TDS-WP	Water							
Batch R5942417								
WG3782425-3 DUP		**L2749794-1**						
Total Dissolved Solids		92	89		mg/L	3.7	20	04-APR-23
WG3782425-2 LCS								

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TDS-WP	Water							
Batch R5942417								
WG3782425-2 LCS								
Total Dissolved Solids			95.3		%		85-115	04-APR-23
WG3782425-1 MB								
Total Dissolved Solids			<4.0		mg/L		4	04-APR-23
TURBIDITY-WP	Water							
Batch R5942097								
WG3782424-3 DUP		**L2749794-1**						
Turbidity		7.49	7.55		NTU	0.8	15	03-APR-23
WG3782424-2 LCS								
Turbidity			96.5		%		85-115	03-APR-23
WG3782424-1 MB								
Turbidity			<0.10		NTU		0.1	03-APR-23
UV-%TRANS-WP	Water							
Batch R5941520								
WG3782376-3 DUP		**L2749818-1**						
Transmittance, UV (254 nm)		91.8	91.6		%T/cm	0.2	20	31-MAR-23
WG3782376-1 IRM		**BLANK**						
Transmittance, UV (254 nm)			100.0		%		99.5-100.5	31-MAR-23
WG3782376-2 LCS								
Transmittance, UV (254 nm)			97.5		%		85-115	31-MAR-23
VOC+F1-HSMS-WP	Water							
Batch R5942577								
WG3782423-4 DUP		**L2749539-2**						
Benzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
1,1-dichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
Dichloromethane		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	03-APR-23
Ethylbenzene		0.00440	0.00505		mg/L	14	30	03-APR-23
MTBE		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
Tetrachloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
Toluene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
Trichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
M+P-Xylenes		0.00302	0.00329		mg/L	8.7	30	03-APR-23
o-Xylene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	03-APR-23
WG3782423-2 LCS								
Benzene			97.7		%		70-130	03-APR-23
1,1-dichloroethene			101.8		%		70-130	03-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	Water							
Batch R5942577								
WG3782423-2 LCS								
Dichloromethane			98.3		%		70-130	03-APR-23
Ethylbenzene			93.1		%		70-130	03-APR-23
MTBE			104.6		%		70-130	03-APR-23
Tetrachloroethene			93.6		%		70-130	03-APR-23
Toluene			95.6		%		70-130	03-APR-23
Trichloroethene			96.7		%		70-130	03-APR-23
M+P-Xylenes			98.9		%		70-130	03-APR-23
o-Xylene			94.6		%		70-130	03-APR-23
WG3782423-1 MB								
Benzene			<0.00050		mg/L		0.0005	03-APR-23
1,1-dichloroethene			<0.00050		mg/L		0.0005	03-APR-23
Dichloromethane			<0.0050		mg/L		0.005	03-APR-23
Ethylbenzene			<0.00050		mg/L		0.0005	03-APR-23
MTBE			<0.00050		mg/L		0.0005	03-APR-23
Tetrachloroethene			<0.00050		mg/L		0.0005	03-APR-23
Toluene			<0.00050		mg/L		0.0005	03-APR-23
Trichloroethene			<0.00050		mg/L		0.0005	03-APR-23
M+P-Xylenes			<0.00040		mg/L		0.0004	03-APR-23
o-Xylene			<0.00050		mg/L		0.0005	03-APR-23
Surrogate: 4-Bromofluorobenzene (SS)			79.9		%		70-130	03-APR-23
Surrogate: 1,4-Difluorobenzene (SS)			104.3		%		70-130	03-APR-23
WG3782423-5 MS		**L2749539-2**						
Benzene			105.4		%		70-130	03-APR-23
1,1-dichloroethene			106.0		%		60-140	03-APR-23
Dichloromethane			101.6		%		70-130	03-APR-23
Ethylbenzene			102.4		%		70-130	03-APR-23
MTBE			110.0		%		70-130	03-APR-23
Tetrachloroethene			99.9		%		70-130	03-APR-23
Toluene			102.1		%		70-130	03-APR-23
Trichloroethene			105.1		%		70-130	03-APR-23
M+P-Xylenes			106.8		%		70-130	03-APR-23
o-Xylene			102.6		%		70-130	03-APR-23

Total Metals (WATER)

				ALS ID	L2749910-1
				Sampled Date	30-MAR-23
				Sampled Time	15:00
				Sample ID	FALCON LAKE 3 - DISTRIBUTION @ LUNCH ROOM
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Aluminum (Al)-Total	mg/L	0.1	2.9		<0.0030
Antimony (Sb)-Total	mg/L	-	0.006		<0.00010
Arsenic (As)-Total	mg/L	-	0.01		<0.00010
Barium (Ba)-Total	mg/L	-	2		0.0422
Beryllium (Be)-Total	mg/L	-	-		<0.00010
Bismuth (Bi)-Total	mg/L	-	-		<0.000050
Boron (B)-Total	mg/L	-	5		0.025
Cadmium (Cd)-Total	mg/L	-	0.005		0.0000054
Calcium (Ca)-Total	mg/L	-	-		55.1
Cesium (Cs)-Total	mg/L	-	-		0.00103
Chromium (Cr)-Total	mg/L	-	0.05		<0.00010
Cobalt (Co)-Total	mg/L	-	-		<0.00010
Copper (Cu)-Total	mg/L	1	2		0.0543
Iron (Fe)-Total	mg/L	0.3	-		0.156
Lead (Pb)-Total	mg/L	-	0.005		0.00122
Lithium (Li)-Total	mg/L	-	-		0.0067
Magnesium (Mg)-Total	mg/L	-	-		13.6
Manganese (Mn)-Total	mg/L	0.02	0.12		0.00585
Molybdenum (Mo)-Total	mg/L	-	-		0.000086
Nickel (Ni)-Total	mg/L	-	-		0.00231
Phosphorus (P)-Total	mg/L	-	-		<0.030
Potassium (K)-Total	mg/L	-	-		3.03
Rubidium (Rb)-Total	mg/L	-	-		0.00820
Selenium (Se)-Total	mg/L	-	0.05		<0.000050
Silicon (Si)-Total	mg/L	-	-		10.4
Silver (Ag)-Total	mg/L	-	-		<0.000010
Sodium (Na)-Total	mg/L	200	-		48.9
Strontium (Sr)-Total	mg/L	-	7		0.130
Sulfur (S)-Total	mg/L	-	-		8.65
Tellurium (Te)-Total	mg/L	-	-		<0.00020
Thallium (Tl)-Total	mg/L	-	-		<0.000010
Thorium (Th)-Total	mg/L	-	-		<0.00010
Tin (Sn)-Total	mg/L	-	-		<0.00010

Total Metals (WATER)

				ALS ID	L2749910-1
				Sampled Date	30-MAR-23
				Sampled Time	15:00
				Sample ID	FALCON LAKE 3 - DISTRIBUTION @ LUNCH ROOM
Analyte	Unit	Guide Limit #1	Guide Limit #2		
Titanium (Ti)-Total	mg/L	-	-		<0.00030
Tungsten (W)-Total	mg/L	-	-		<0.00010
Uranium (U)-Total	mg/L	-	0.02		0.000316
Vanadium (V)-Total	mg/L	-	-		<0.00050
Zinc (Zn)-Total	mg/L	5	-		0.0283
Zirconium (Zr)-Total	mg/L	-	-		<0.00020

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5943236								
WG3782611-2 LCS								
Aluminum (Al)-Total			101.7		%		80-120	10-APR-23
Antimony (Sb)-Total			106.5		%		80-120	10-APR-23
Arsenic (As)-Total			103.2		%		80-120	10-APR-23
Barium (Ba)-Total			101.7		%		80-120	10-APR-23
Beryllium (Be)-Total			99.0		%		80-120	10-APR-23
Bismuth (Bi)-Total			97.5		%		80-120	10-APR-23
Boron (B)-Total			109.8		%		80-120	10-APR-23
Cadmium (Cd)-Total			102.7		%		80-120	10-APR-23
Calcium (Ca)-Total			100.5		%		80-120	10-APR-23
Cesium (Cs)-Total			101.4		%		80-120	10-APR-23
Chromium (Cr)-Total			103.1		%		80-120	10-APR-23
Cobalt (Co)-Total			104.4		%		80-120	10-APR-23
Copper (Cu)-Total			104.8		%		80-120	10-APR-23
Iron (Fe)-Total			98.8		%		80-120	10-APR-23
Lead (Pb)-Total			96.3		%		80-120	10-APR-23
Lithium (Li)-Total			96.6		%		80-120	10-APR-23
Magnesium (Mg)-Total			101.4		%		80-120	10-APR-23
Manganese (Mn)-Total			100.7		%		80-120	10-APR-23
Molybdenum (Mo)-Total			104.3		%		80-120	10-APR-23
Nickel (Ni)-Total			102.7		%		80-120	10-APR-23
Potassium (K)-Total			103.0		%		80-120	10-APR-23
Phosphorus (P)-Total			105.3		%		80-120	10-APR-23
Rubidium (Rb)-Total			102.0		%		80-120	10-APR-23
Selenium (Se)-Total			106.0		%		80-120	10-APR-23
Silicon (Si)-Total			105.0		%		80-120	10-APR-23
Silver (Ag)-Total			92.5		%		80-120	10-APR-23
Sodium (Na)-Total			101.0		%		80-120	10-APR-23
Strontium (Sr)-Total			99.2		%		80-120	10-APR-23
Sulfur (S)-Total			108.5		%		80-120	10-APR-23
Tellurium (Te)-Total			102.0		%		80-120	10-APR-23
Thallium (Tl)-Total			99.3		%		80-120	10-APR-23
Thorium (Th)-Total			94.9		%		80-120	10-APR-23
Tin (Sn)-Total			103.3		%		80-120	10-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5943236								
WG3782611-2 LCS								
Titanium (Ti)-Total			101.9		%		80-120	10-APR-23
Tungsten (W)-Total			101.3		%		80-120	10-APR-23
Uranium (U)-Total			98.8		%		80-120	10-APR-23
Vanadium (V)-Total			103.6		%		80-120	10-APR-23
Zinc (Zn)-Total			102.9		%		80-120	10-APR-23
Zirconium (Zr)-Total			99.4		%		80-120	10-APR-23
WG3782611-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	10-APR-23
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	10-APR-23
Arsenic (As)-Total			<0.00010		mg/L		0.0001	10-APR-23
Barium (Ba)-Total			<0.00010		mg/L		0.0001	10-APR-23
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	10-APR-23
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	10-APR-23
Boron (B)-Total			<0.010		mg/L		0.01	10-APR-23
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	10-APR-23
Calcium (Ca)-Total			<0.050		mg/L		0.05	10-APR-23
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	10-APR-23
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	10-APR-23
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	10-APR-23
Copper (Cu)-Total			<0.00050		mg/L		0.0005	10-APR-23
Iron (Fe)-Total			<0.010		mg/L		0.01	10-APR-23
Lead (Pb)-Total			<0.000050		mg/L		0.00005	10-APR-23
Lithium (Li)-Total			<0.0010		mg/L		0.001	10-APR-23
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	10-APR-23
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	10-APR-23
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	10-APR-23
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	10-APR-23
Potassium (K)-Total			<0.050		mg/L		0.05	10-APR-23
Phosphorus (P)-Total			<0.030		mg/L		0.03	10-APR-23
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	10-APR-23
Selenium (Se)-Total			<0.000050		mg/L		0.00005	10-APR-23
Silicon (Si)-Total			<0.10		mg/L		0.1	10-APR-23
Silver (Ag)-Total			<0.000010		mg/L		0.00001	10-APR-23
Sodium (Na)-Total			<0.050		mg/L		0.05	10-APR-23

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	Water							
Batch R5943236								
WG3782611-1 MB								
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	10-APR-23
Sulfur (S)-Total			<0.50		mg/L		0.5	10-APR-23
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	10-APR-23
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	10-APR-23
Thorium (Th)-Total			<0.00010		mg/L		0.0001	10-APR-23
Tin (Sn)-Total			<0.00010		mg/L		0.0001	10-APR-23
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	10-APR-23
Tungsten (W)-Total			<0.00010		mg/L		0.0001	10-APR-23
Uranium (U)-Total			<0.000010		mg/L		0.00001	10-APR-23
Vanadium (V)-Total			<0.00050		mg/L		0.0005	10-APR-23
Zinc (Zn)-Total			<0.0030		mg/L		0.003	10-APR-23
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	10-APR-23

- **Were there any issues or failures with meeting any requirements over the year?**

  - December 19th a boil water advisory was issued for a scheduled waterline repair. This advisory was receded following the results from samples taken after the repair.

Manitoba

Health
Environment and Climate Change

PUBLIC NOTICE

BOIL WATER ADVISORY

FOR A PORTION OF THE FALCON LAKE PUBLIC WATER SYSTEM
Distribution line from 39 Fairway Crescent, along Southshore Road up to the Falcon Lake Conservation Maintenance Yard

Issued by the Medical Officer of Health, Manitoba Health and
the Office of Drinking Water, Manitoba Environment and Climate Change

December 19, 2024

Scheduled maintenance to the water system will lead to the loss of water pressure in a portion of the Falcon distribution system that services the distribution line from **Distribution line from 39 Fairway Crescent, along Southshore Road up to the Falcon Lake Conservation Maintenance Yard.** Distribution depressurization can compromise the safety of the water supply. A boil water advisory is being issued starting at **1:00 pm on December 19, 2024** to ensure the protection of public health.

RECOMMENDATIONS

Until further notice, all water used for consumption should be brought to a rolling boil for at least one minute before it is used for:

- Drinking and ice making
- Preparing beverages, such as infant formula
- Preparing food, including washing fruits and vegetables
- Brushing teeth

It is **not** necessary to boil tap water used for other household purposes, such as laundry or washing dishes. Adults and older children that are able to avoid swallowing the water can wash, bathe, or shower. Young children should be sponge bathed. If boiling is not practical, an alternate and safe supply of water should be used for consumptive purposes; i.e. bottled water. Boil Water Advisory Fact Sheet #1 - Boil Water Advisory For Manitoba Water System Users contains additional information on water use and can be found on the website below.

All commercial, public and permitted facilities (ex: restaurants, health care facilities, day cares, personal care homes and other private facilities that provide food and water services) must follow water use recommendations from the Boil Water Advisory Fact Sheet #3 – Boil Water Advisory For Commercial/Public Facilities. A copy of this Fact Sheet is available on the website below.

To avoid burn injuries from hot water, caution should be taken. Please keep young children away from boiling water. Place kettles and pots away from counter and stove edges.

Please share this information with other people who use the tap water, especially those who may not have received this notice directly (ex: renters, tenants, staff, or clients). This notice can also be posted in common areas where people tend to gather.

DURATION

The Boil Water Advisory will remain in effect until the water supplied by this water system no longer presents a risk to public health. You will be notified when the advisory has been rescinded.

If you have any questions or concerns, please contact water system at 204-371-7028 or the Regional Drinking Water Officer at 204-371-5065, or Health Links at 204-788-8200 (toll free at 1-888-315-9257).

To review Fact Sheets on water use, please go to www.manitoba.ca/drinkingwater or http://www.gov.mb.ca/health/publichealth/environmentalhealth/water.html

Interlake-Eastern
Regional Health Authority

Dr. Tim Hilderman
589 – 3rd Avenue South
Stonewall, Manitoba
R0C 2Z0

December 23, 2024 Code: 245.00

Manitoba Environment and Climate Change
Rob Nedotiafko, Director of Parks
4th Floor – 254/258 Portage Avenue
Winnipeg, MB R3C 0B6
rob.nedotiafko@gov.mb.ca

RE: BOIL WATER ADVISORY ISSUED TO WEST HAWK LAKE PUBLIC WATER SYSTEM

Dear Rob Nedotiafko:

Drinking Water Officer, Taylor Schellenberg has advised me that the West Hawk Lake public water system has met all conditions for rescinding the boil water advisory and that bacteriological testing results meet regulatory standards.

I am therefore rescinding the boil water advisory that was placed on a portion of the Falcon Lake public water system on December 18, 2024.

Please ensure all water users are notified that the advisory has been rescinded and that normal water usage can be resumed. A copy of this letter can be provided as notification. Notices posted in public locations such as washrooms are to be removed.

Should you have any questions, please contact Taylor Schellenberg, Regional Drinking Water Officer at 431-347-0414.

Sincerely,

Dr. Tim Hilderman
Medical Officer of Health
Interlake Eastern Regional Health Authority

cc:
Sacha Janzen – A/Director, Office of Drinking Water
Marc Balcaen – A/Manager, Field Operations, Office of Drinking Water
Sarah Belisle – Regional Drinking Water Officer, Office of Drinking Water
Public Health Inspector - healthprotection@gov.mb.ca
Interlake Eastern Health Authority Emergency Preparedness Program (disastermanagement@ierha.ca)
Falcon Lake Operators
Amy Kirby, Park Operations Supervisor, South Whiteshell
Keith Hood, Park District Manager, South Whiteshell
Kurtis Cline, Park Region Manager, Eastern

Pinawa
24 Aberdeen Avenue, Box 339
Pinawa, Manitoba
R0E 1L0
Phone: 1.204.753.2012
Toll Free: 1.877.753.2012
Fax: 1.204.753.2015

Stonewall
589- 3rd Avenue South
Stonewall, Manitoba
R0C 2Z0
Phone: 1.204.467.4742
Toll Free: 1.888.488.2299
Fax: 1.204.467.4750

Selkirk
100 Easton Drive, Box 5000
Selkirk, Manitoba
R1A 2M2
Phone: 1.204.482.5800
Toll Free: 1.888.488.2299
Fax: 1.204.785.9113

Website: www.ierha.ca
Email: info@ierha.ca

- **Were there any unforeseen major issues or expenses over the year?**
    - We had two new wells drilled and pumps installed this year as part of a water plant upgrade.
- **Do you expect any major projects or expenses next year that we**

should be aware of, or that may affect my water service?

- In February 2025 we will have the vfd's and connections to tie in the new wells completed and online.

Here at Falcon Lake Water Treatment Plant we'd love to give our thanks to our community for a great year and we plan to continue providing you with excellent and safe drinking water. THANK YOU!

Sincerely your operators

Matt, Steve and Jake

Manitoba