2025
PUBLIC WATER SYSTEM OPERATION REPORT

Town of Niverville
329 Bronstone Drive
Niverville, MB, R0A 1E0

Operation License # PWS-11-485-02

INTRODUCTION

The Town of Niverville strives to provide the highest quality drinking water in sufficient quantity to meet the needs of the residents. It is our goal to provide this water in a safe, cost-effective manner while remaining in compliance with all regulatory requirements governing the provision of potable water.

It is our belief that the public has a right to access information related to the potable water they consume. To that end, the following report has been prepared for the Town of Niverville public water system.

WHY DO WE TREAT OUR WATER

We treat our water to ensure that safe and aesthetically pleasing potable water is supplied to our community. The Town of Niverville is committed to meeting and/or exceeding the water quality standards set by the province.

DISCRIPTION OF WATER SYSTEM

Where do we get our water from?

The raw water is currently obtained from two supply wells located one mile west of New Bothwell. The wells draw ground water from secured aquifers in the fractured limestone. Both wells were installed in 2017 and are both 200 mm in diameter. The first well has a total depth of 91.4m with a 300 mm welded black steel casing installed to a depth of 27.1 m. The second well has a total depth of 96.6 m with a 300 mm welded black steel casing installed to a depth of 27.4 m. The wells were tested by Friesen Drillers Ltd. to each have an estimated discharge rate of 500 Imperial Gallons Per Minute (IGPM). The raw water from these two wells is pumped via 50Hp submersible pumps that travel 10.5 km to the water treatment plant via a 350 mm High-density polyethylene (HDPE) pipeline.

What is our treatment process?

Raw water is pumped from the fractured limestone aquifer to the water treatment plant. The raw water enters the building where an online turbidimeter monitors the turbidity (clarity) of the water before the water is split between the two treatment processes. The flow is split 50/50 with half of the water being directed to two sets of dual train reverse osmosis (RO) skids, while the other half is diverted to three biofilters.

Biofilter (BFU) Treatment Process

The raw water that flows to the biofilters have online instrumentation (probes) which monitors pH, ORP, temperature, and dissolved oxygen of the water. After these probes, an air sparger is installed in the pipe. The air sparger is used to inject air into the water to increase the dissolved oxygen levels going to the biofilters. This air is important to ensure the good bacteria in each of the biofilters can survive and thrive. These bacteria are what treats the water. There are two large air compressors installed in the building, which feed compressed air to the air sparger. After the air sparger, the flow is directed to three biofilters which run in parallel. When the water plant calls to make water based on the treatment mode, automated valves open to allow the flow of water through the biofilters. Inside each biofilter are layers of different sized gravel and a filtralite material. The bottom third of each filter is layered with different sizes of gravel between 1” inch diameter down to 1/8” inch diameter. The larger sized gravel naturally sits on the bottom of the tank. After the gravel layer is the filtralite material. The filtralite is installed on top of the gravel to about two thirds high in the tank. The water makes up the remaining third of the filter. There are a couple different pipes installed in this gravel layer. One set of pipes is for the underdrain, while the other is for the air scour. The air scour piping is used during the biofilter backwash cycle. Air is injected through the air scour piping to mix up the material inside the filter. The underdrain piping collects the treated water which flows through the biofilter and is

then directed to the treatment header. During the biofilter treatment, water is forced into the biofilter and down through the filtralite material which mainly removes iron and manganese from the water. This water is then collected into the underdrain pipe installed in the gravel layer. This treated water, which is now called filtrate, flows from the bottom of the filter to the treatment header. The filtrate coming out of each biofilter is again being monitored for pH, ORP, dissolved oxygen, and turbidity by online instrumentation.

Reverse Osmosis (RO) Treatment Process

The raw water is directed to one of the two reverse osmosis multi train units (RO MTU). The flow direction is dependant on which mode of treatment is being used. Raw water is dosed with an anti-scalant prior to entering the skid. Online instrumentation (probes) monitors conductivity, ORP, and temperature of the incoming water. The raw water then flows through a set of 1-micron prefilters which remove larger debris and particles (sand, silt etc.) from the water to help minimize debris from plugging the membrane filters. A booster pump then takes that water and increases the pressure to force the water through the reverse osmosis membranes. These membranes remove any particles and minerals from the water. The water that makes it through the membranes is now treated and is called permeate water. The water, metals, and minerals that do not make it through the membranes, that solution is called concentrate. The RO units have a typical recovery rate of about 80%. This means that 80% of the water being pushed through the membrane will come out as permeate while the remaining 20% will be concentrate. The permeate water has online instrumentation monitoring pH, conductivity, and turbidity before heading to the treatment header.

Treatment Header

The treatment header is where the biofilter filtrate, and the reverse osmosis permeate water meets before entering the reservoir. The RO permeate water is dosed with sodium hydroxide (caustic soda) to bring the pH level back up to about 7.40. The permeate water then goes through an internal static mixer, which mixes the chemical that was just added. The permeate water and filtrate water then combine, where an online probe monitors the pH level of the treated water that is mixing. This treated water is then injected with aqua mag blended phosphate which is a corrosion inhibitor to limit corrosion on various metal piping. It is then dosed with sodium hypochlorite (chlorine) for the final disinfection before entering the reservoir. Each of the chemical pumps dose a set amount of chemical based on flow. This means that the more water being produced, the higher the chemical will be injected. This is so the pumps can be used for each different mode of treatment. Each chemical is equipped with two chemical pumps which run in a Duty / Standby configuration. This means that if one of the two pumps breaks down, the other pump will take over.

Reservoirs

The Niverville water treatment plant has three, below grade reservoirs with a combined capacity of 3,500 m3 (3,500,000 litres). The size of storage allows the chlorine proper contact time with the water (minimum 20 minutes) to confirm proper disinfection is taken place. Each reservoir is split into two different cells. This gives the operators the ability to isolate specific cells to allow them to be taken offline for cleaning. Interconnection piping between each cell and reservoir allows the flow of water to be directed to bypass any of the cells. Below is the information on each of the three reservoirs.

Reservoir 1 (Cell 1&2 - 2007) – This reservoir has a 500,000 litre capacity

Reservoir 2 (Cell 3&4 - 2010) – This reservoir has a 1,200,000 litre capacity

Reservoir 3 (Cell 5&6 - 2023) – This reservoir has a 1,800,000 litre capacity

Water Treatment Water Request and Fill Modes

The Town of Niverville's water treatment plant was designed to achieve a blend rate of 50% filtrate (Bio) to 50% permeate (RO) water. To achieve this mixing ratio, different configurations of equipment run and are as followed.

Mode 1 - 15 L/sec production – 1 MTU B Train + 1 BFU Train

Mode 2 - 40 L/sec production – 1 MTU A Train + 2 BFU Trains

Mode 3 - 55 L/sec production – 1 MTU B Train + 1 MTU A Train + 3 BFU Trains

There are three different ultra sonic level transmitters installed in the reservoirs. These ultra sonic level transmitters, give an accurate depth of water currently in the reservoir. A fill request is activated automatically when the ultra sonic transmitter indicates a pre-set (adjustable) level in the reservoir. Once that level is hit, the water treatment plant will automatically start one of the modes of production based on the operators setpoints. Water will continue to be made, filling the reservoir, until the ultra sonic level transmitter reaches another pre-set (adjustable) level. All modes of treatment and levels of reservoir setpoints can all be changed by the operator.

Why do we disinfect our water?

The final step in the treatment of safe water is disinfection. Disinfection is the selective destruction or inactivation of disease-causing organisms in water. The *Drinking Water Safety Act* and supporting regulations require that potable water be in contact with chlorine for a minimum

of 20 minutes before it enters the distribution system. The Town uses sodium hypochlorite (chlorine) to disinfect our water. The provincial standards mandate that the Town maintains a minimum residual chlorine level of 0.5 mg/L leaving the water plant.

What is our water plant classification and who is certified?

The facility classification and operator certification fall under The Environmental Acts Water and Wastewater Facility Operators Regulations. Currently, the water treatment plant, and the water distribution system are classified as a Class 2 facility. The Town of Niverville has the following operators available.

Water Treatment

Class II – 2 Certified Operators

Class I – 2 Certified Operators

Water Distribution

Class II – 2 Certified Operators

Class I – 2 Certified Operators

What is the 'distribution system'?

The water distribution system is the network of underground pipes used to carry the treated water from the water treatment facility to the homes & businesses within our community. We have both PVC (C-900) and High-density polyethylene (HDPE) piping through parts of the Town. The piping is interconnected (looped) to ensure that fresh safe potable water is continuously supplied. We carry out regular maintenance in the distribution system such as valve maintenance, hydrant flushing and fire hydrant testing in cooperation with the Town of Niverville Volunteer Fire Department.

WHO DO WE SERVE WATER TO

The water distribution system is comprised of 1,624 service connections. All (100%) of the homes and businesses connected to the distribution system are metered.

Classification	**Size**	**Number**
Residential (Single / Multi)	5/8”	1,573
Residential (Multi)	1” - 3”	6
Commercial / Institutional	5/8”	22
Commercial / Institutional	3/4” - 3”	23
Total		1,624

What are the water rates?

The current rate for 1,000 gallons of water is $11.96. Customers will pay the applicable minimum charge set below which includes the water allowance as listed.

	Meter Size	**Minimum Gallons**	**Previous Rate (By-Law 745-14)**	**Current Rate (By-Law 862-24)**
Quarterly Service Charge			$7.37	$3.09
Water (Per 1,000 Gallons)			$11.18	$11.96
Reconnection Free			$40.00	$50.00
Bulk Water (Per 1,000 Gallons)			-	$14.21
Minimum quarterly charge (Service charge included)	5/8 Inch	3,000	$40.91	$38.97
Minimum quarterly charge (Service charge included)	3/4 Inch	6,000	$74.45	$74.85
Minimum quarterly charge (Service charge included)	1 Inch	12,000	$141.53	$146.61
Minimum quarterly charge (Service charge included)	1 1/2 Inch	30,000	$342.77	$361.89

Minimum quarterly charge (Service charge included)	2 Inch	75,000	$845.87	$900.09
Minimum quarterly charge (Service charge included)	3 Inch	135,000	$1,516.67	$1,617.69
Minimum quarterly charge (Service charge included)	4 Inch	270,000	$3,025.97	$3,232.29
Minimum quarterly charge (Service charge included)	6 Inch	510,000	$5,709.17	$6,102.69

WATER QUALITY STANDARDS

The Town's Operating license identifies that our public water system shall operate in a manner that achieves or exceed the quality/treatment standards specified in the table below.

Parameter	Quality Standard
Total Coliform	Less than one total coliform bacteria detectable per 100 mL in all treated and distribution water
E. Coli	Less than one E. Coli bacteria detectable per 100 mL in all treated and distribution 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 always 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
Lead	Less than or equal to 0.005 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

The parameters for total coliform and E. Coli are tested biweekly. A full water analysis is required by the province a minimum of every 3 years. Both the biweekly test results and water analysis can be found on our website at: *https://www.whereyoubelong.ca/town-services/financial-services/utilities/*

Below is a summary of the testing results for each parameter listed on our licence.

Parameter	**Unit**	**Guide Limit #1 (mg/L)**	**Guide Limit #2 (mg/L)**	**Raw Water**	**Spruce Drive - Treated Water**	**Distribution @ Mid Point**
Arsenic (As)	mg/L		0.01	0.00401	0.00184	0.00175
Benzene	mg/L		0.005	<0.00050		
Ethylbenzene	mg/L	0.0016	0.14	<0.00050		
Fluoride (F)	mg/L		1.5	0.857	0.462	
Lead (Pb)	mg/L		0.005	0.000110	0.000142	0.000291
Manganese (Mn)	mg/L	0.02	0.12	0.00580	0.00200	0.00164
Nitrate (as N)	mg/L		10	<0.0050	0.220	
Nitrite (as N)	mg/L		1	0.0010	<0.0010	
Trichloroethylene	mg/L		0.005	<0.00050		
Tetrachloroethylene	mg/L		0.01	<0.00050		
Toluene	mg/L	0.024	0.06	<0.00050		
Total Xylenes	mg/L	0.02	0.09	<0.00050		
Uranium	mg/L		0.02	0.000274	0.000140	0.000121

TESTING & MONITORING

Is our water tested? What for? When?

The Town's operating license identifies that our public water system shall ensure monitoring is completed as set out from the specified table below.

Water Quality Monitoring	
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
Free Ammonia (treated water)	One sample per week of water entering the distribution system
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(s) as General Chemistry sampling at a mid-point in the distribution system
Lead	As per the instructions of the drinking water officer The Residential Lead Monitoring Program starting in Spring 2025. The number of samples needed per year is based on population served. Currently 20 samples are needed per year with 2/3 of the samples taken between June and October
Manganese	Monitoring included in the General Chemical and Total Metals analysis
Other Parameters	As per the instructions of the drinking water officer

Residential Lead Monitoring Program

In 2019, Health Canada updated the national guideline for lead in drinking water. The maximum acceptable concentration (MAC) for total lead in drinking water was lowered from 0.010 mg/L to 0.005 mg/L with samples taken from a resident's kitchen tap. This guideline was adopted by Manitoba as the new standard in 2020. This implementation was put into affect for the Town of Niverville in November 2024. The first samples for this program were taken in Spring 2025. Below are the results from the residential lead monitoring program.

Sample #	Date	Address	Sample By	Sample Type *	Results (mg/L)
1	15-Apr-25	67 Cobblestone Court	Town Staff	RDT	0.000073
2	13-May-25	99 Main Street	Town Staff	RDT	0.000158
3	3-Jun-25	30 Aberdeen Drive	Town Staff	RDT	0.000037
4	17-Jun-25	104 Prairie Crossings Court	Town Staff	RDT	0.000044
5	17-Jun-25	8 Cambridge Way	Town Staff	RDT	0.000384
6	24-Jun-25	#31 - 10 Foxdale Way	Town Staff	RDT	0.000229
7	15-Jul-25	22 Foxdale Way	Town Staff	RDT	0.000129
8	15-Jul-25	11 Kingsley Gate	Town Staff	RDT	0.000400
9	30-Jul-25	23 Claremont Drive	Town Staff	RDT	0.000143
10	15-Aug-25	25 Denby Cove	Town Staff	RDT	0.000462
11	3-Sep-25	33 Sheffield Way	Town Staff	RDT	0.000694
12	3-Sep-25	38 Briarfield Court	Town Staff	RDT	0.000048
13	23-Sep-25	136 Breckenridge Drive	Town Staff	RDT	0.000038
14	23-Sep-25	138 Breckenridge Drive	Town Staff	RDT	0.000024
15	15-Oct-25	49 Aberdeen Drive	Town Staff	RDT	0.000038
16	27-Oct-25	#24 - 25 Lilac Place	Town Staff	RDT	0.000590
17	27-Oct-25	81 Prairie Crossings Court	Town Staff	RDT	0.000113
18	18-Nov-25	12 Beaumont Circle	Town Staff	RDT	0.000192
19	2-Dec-25	12 Claremont Drive	Town Staff	RDT	0.000187
20	2-Dec-25	19 Cutlers Ridge	Town Staff	RDT	0.000059

* Note - Sample type will be either RDT (Random Daytime Sample Method) or a 30-MS (30-Minute Stagnation Sample Method). If the RDT test results are above the maximum acceptable concentration (MAC) guideline of 0.005 mg/L, then a 30-minute stagnation test is completed.

For more information on the Lead Monitoring Program, please visit our website at *https://www.whereyoubelong.ca/town-services/financial-services/utilities/*

What do we have in place to alert Operations Staff to water emergencies?

The Town has an operator on-call for sewer & water emergencies 24 hours a day / 7 days a week. This operator can access the water plants Supervisory Control and Data Acquisition (SCADA) system via their smart phone or laptop. Operators can check on the status of pumps, valves, sensors, flows, and chemical dosing. All equipment in the water plant has alarm parameters set specifically for that piece of equipment. If any equipment runs outside of those set parameters, an alarm will go off. Once an alarm is triggered, a signal is sent to an auto dialer which will call through a list of preset operator's cell phone numbers until the alarm is acknowledged. The operator can then log on to the SCADA system to determine the cause of the alarm. This allows operators to diagnose issues more efficiently and effectively.

Disinfection summarization report for 2025

Below is a summary of the disinfection sampling that was completed for the year of 2025. All this information can be found in greater detail starting on page 25 in this report.

Month	Handheld Disinfection Samples Taken	Handheld Disinfection Samples Below Standard	Automated Disinfection Samples Taken	Automated Disinfection Samples Below Standard
January	31	0	8,928	0
February	28	0	8,064	0
March	31	0	8,928	0
April	30	0	8,640	0
May	31	0	8,927	0
June	30	0	8,640	0
July	31	0	8,928	0
August	31	0	8,928	0
September	30	0	8,640	0
October	31	0	8,928	0
November	30	0	8,652	22
December	31	0	8,928	0
Total	**365**	**0**	**105,131**	**22**

WATER SYSTEM INCIDENTS & CORRECTIVE ACTIONS

Were there any emergencies, regulatory compliance issues or other operational issues to report for 2025?

On November 28, 2025, our chlorine analyzer was cleaned and calibrated. This caused 22 readings to be recorded as 0.00 mg/L free chlorine. We completed a handheld reading before and after cleaning and recorded a free chlorine of 1.15 mg/L.

The Town of Niverville's operating licence renewal paperwork was submitted to the Office of Drinking Water on October 21, 2025. The current operating licence expires on February 28, 2026.

Drinking Water Officer Inspections

On December 23, 2025, an inspection of the Niverville Spruce Drive public water system was completed by our drinking water officer. The primary focus of the inspection was to confirm compliance with the terms and conditions of Niverville Spruce Drive public system Operating Licence PWS-11-458-02. No items were identified that required immediate action to be taken.

Were there any drinking water safety orders issued?

In the reporting period, no Drinking Water Safety Orders were issued to the Town of Niverville's water treatment plant.

Were there any boil water advisories?

On July 7, 2025, a scheduled temporary boil water advisory was issues for residents of 11-26 Denby Cove, and 11, 13, and 15 Hawthorne Way. This was to accommodate a repair on the watermain that was found to be leaking. The boil water advisory was lifted on July 9, 2025 after sample results came back negative for total coliforms and E.Coil.

Were there any warnings issued, fines, or charges laid?

In the reporting period, no warnings or fines were issued to the Town of Niverville's water treatment plant.

Were there any major expenses that incurred in 2025?

1. Repair and replacement of the cross section of watermain that was leaking at the corner of Denby Cove and Hawthorne Way.

   Approx cost: $21,000

Future system expansion or expenses expected?

1. Research into a 3rd raw water supply well to build redundancy into the raw water supply for the Town of Niverville Treatment Plant.

Who can we call with questions or concerns regarding our drinking water?

All calls regarding water (emergency or not), please call the Town of Niverville directory (204)-388-4600 ext.1111 and leave a message. Staff will listen to the message within a reasonable amount of time and respond accordingly.

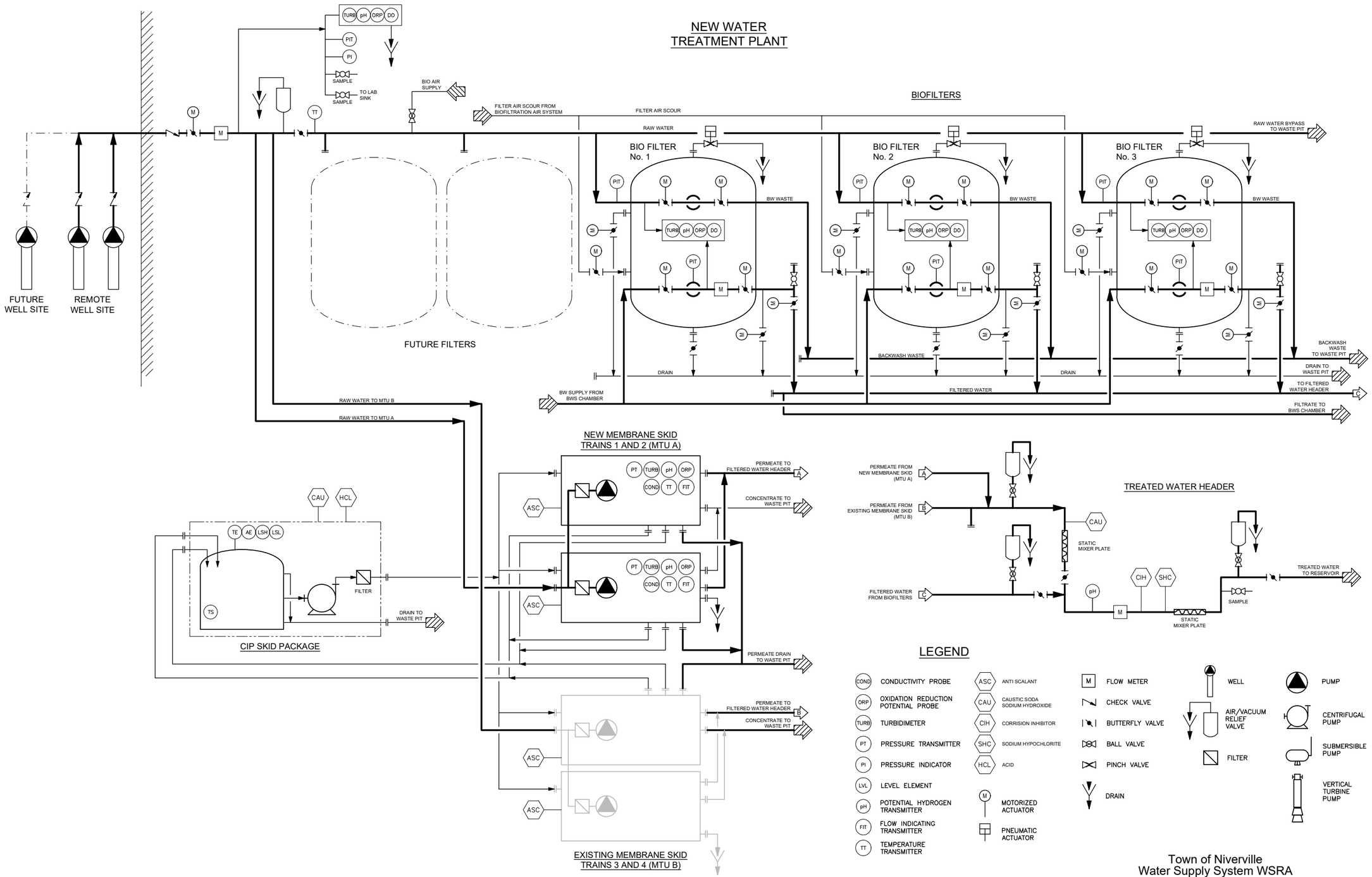
How can you find out about this report?

This report will be available on or before March 31 of each year. The Town will also post the link to this report on our social media pages once available. The link for this report can be found on the Towns website under the resources section at *https://www.whereyoubelong.ca/town-services/financial-services/utilities/*

Paper copies are available upon request at the Town Office.

If you wish to leave an email (non-emergency) please send it to *utilities@whereyoubelong.ca*

NEW WATER TREATMENT PLANT



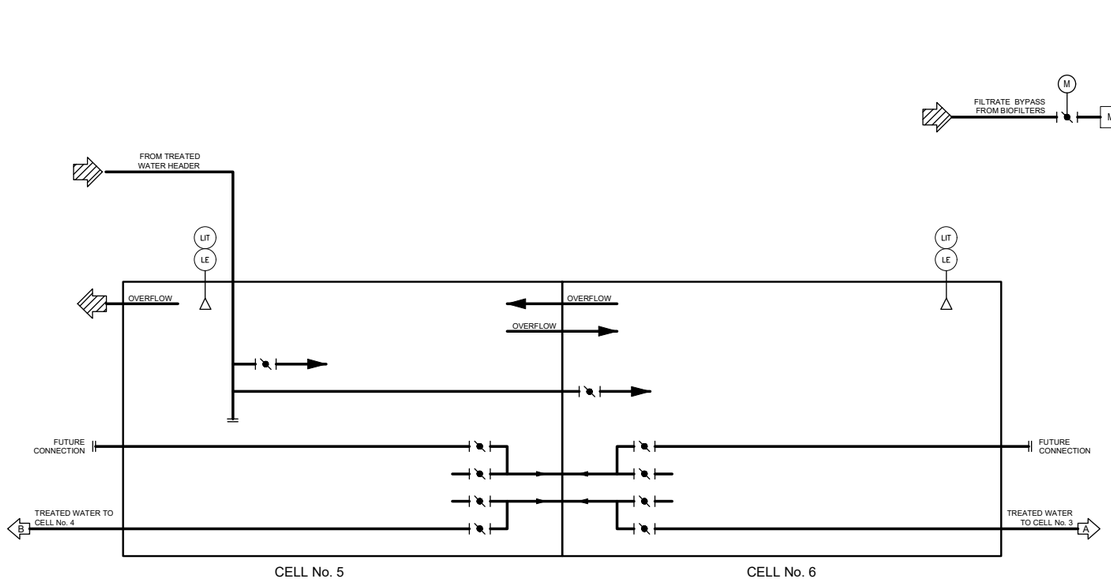
Town of Niverville
Water Supply System WSRA
Process Flow Diagram
1 of 2

PROJECT-NO CE882200

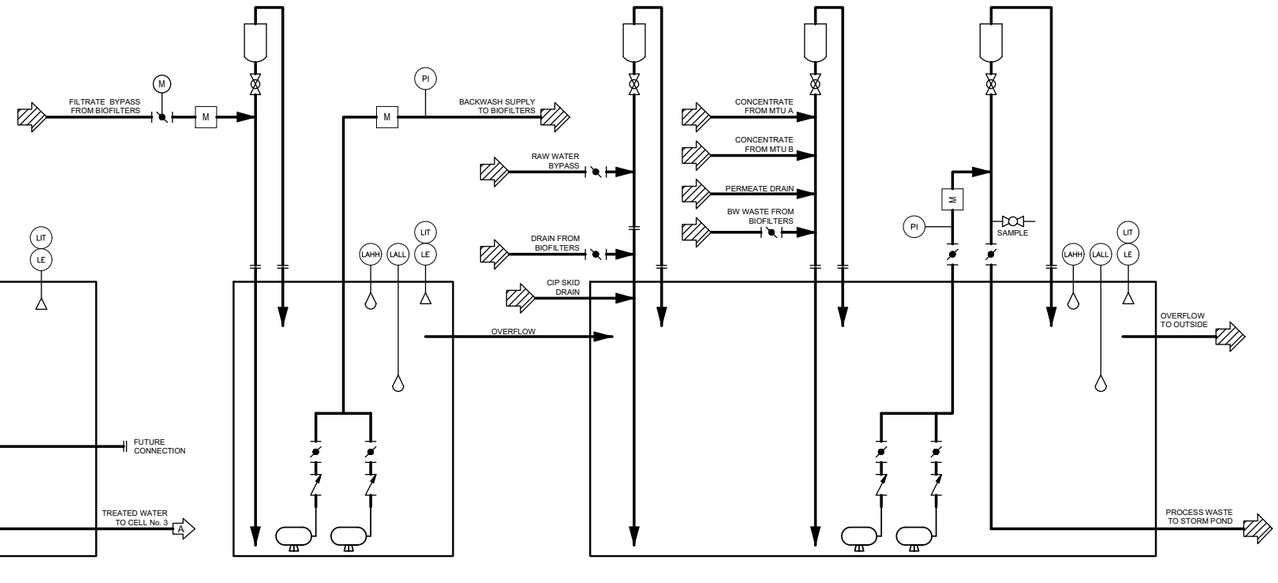
FILENAME:

PLOT DATE:

Jacobs

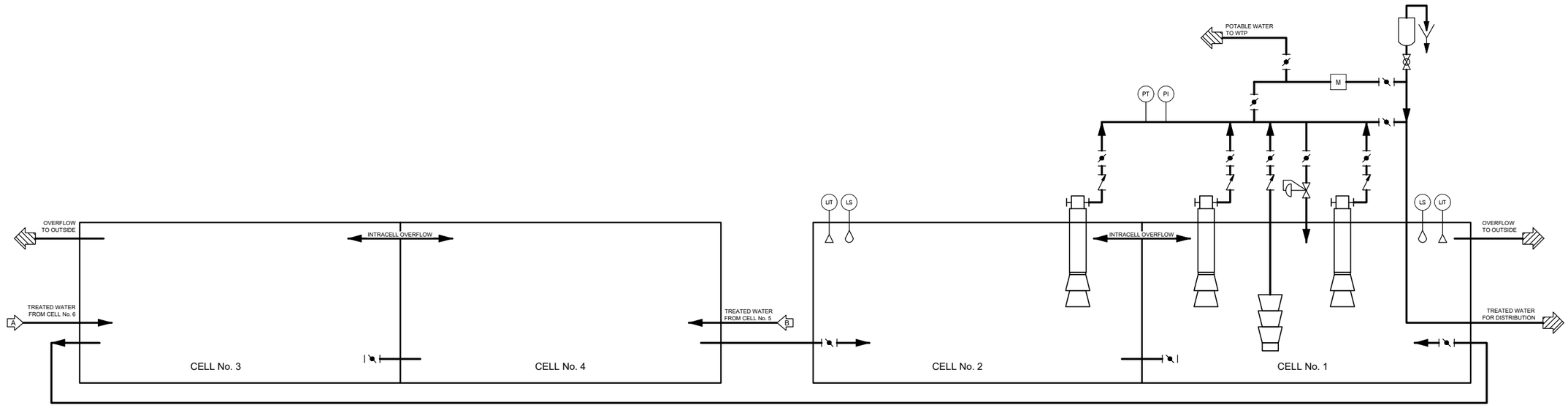


2022 RESERVOIR



BACKWASH SUPPLY CHAMBER

PROCESS WASTE PIT



2010 RESERVOIR

2007 WTP PUMP CELLS

Town of Niverville
Water Supply System WSRA
Process Flow Diagram
2 of 2

Jacobs

PROJECT-NO CE882200

FILENAME:

PLOT DATE:

Water and Wastewater Facility Operators Certification Program

This is to certify that the

Spruce Drive Water Plant

owned by

Town of Niverville

has been classified as a

Class 2 Water Treatment Facility

in accordance with the Water and Wastewater Facility Operators Regulation under *The Environment Act.*

Dated at Winnipeg, Manitoba **this** 30th **day of** May 2016.

Certificate No.: 2016-010

Tracey Braun

Director
Manitoba Sustainable Development

Manitoba

Water and Wastewater Facility Operators Certification Program

This is to certify that the

Spruce Drive Water Distribution

owned by

Town of Niverville

has been classified as a

Class 2 Water Distribution Facility

in accordance with the Water and Wastewater Facility Operators Regulation under *The Environment Act.*

Dated at Winnipeg, Manitoba **this** 30th **day of** May 2016.

Certificate No.: 2016-011

Tracey Braun

Director
Manitoba Sustainable Development

Manitoba

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-11-485-02

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

WATER SYSTEM CODE: **151.25**

OPERATION ID: **42862**

EFFECTIVE DATE: **DECEMBER 1, 2021**

EXPIRY DATE: **FEBRUARY 28, 2026**

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

TOWN OF NIVERVILLE: "THE LICENSEE"

FOR THE OPERATION OF THE **NIVERVILLE SPRUCE DRIVE PUBLIC WATER SYSTEM**, WHICH INCLUDES SECURE WELLS, 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 LICENCES FOR THIS PUBLIC WATER SYSTEM.

DATE: November 22, 2021

Siobhan Burland Ross, P.Eng.
A/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 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 March 1, 2024, 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.

2.5. 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 in accordance with the advisory notification plan or 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
Lead	Less than or equal to 0.005 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

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
Free Ammonia (treated water)	One sample per week of water entering the distribution system
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(s) as General Chemistry sampling at a mid-point in the distribution system
Lead	As per the instructions of the drinking water officer
Manganese	Monitoring included in the General Chemical and Total Metals analysis
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) manganese
d) total metals
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 record other measurements as specified in *Table 2: Monitoring Schedule* on the monthly report forms or other forms satisfactory to the director.

6.6. 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.

6.7. 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.

6.8. 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.

6.9. 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.

6.10. 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.

6.11. 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.

6.12. 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.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: Jan **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: m^3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	9:16am	JK	1.08	1.26	734
2	8:19am	JK	1.12	1.27	672
3	8:35am	JK	1.14	1.34	688
4	7:15am	KP	1.17	1.35	641
5	7:20am	KE	1.20	1.36	707
6	7:30am	JK	1.21	1.39	815
7	7:30am	JK	1.17	1.39	689
8	7:35am	JK	1.20	1.42	663
9	7:38am	JK	1.23	1.43	698
10	7:57am	JK	1.20	1.39	678
11	10:14am	KH	1.17	1.33	711
12	8:06am	KE	1.23	1.36	619
13	7:46am	JK	1.17	1.36	828
14	7:30am	JK	1.14	1.34	659
15	7:30am	JK	1.17	1.34	648
16	7:26am	AR	1.12	1.30	650

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:45am	JK	1.13	1.32	663
18	7:03am	KP	1.15	1.30	628
19	8:11am	KH	1.12	1.33	758
20	9:35am	JK	1.25	1.48	872
21	7:37am	JK	1.28	1.49	622
22	7:40am	JK	1.32	1.52	650
23	7:36am	JK	1.24	1.47	658
24	7:18am	JK	1.18	1.37	648
25	8:36am	KH	1.13	1.26	676
26	10:45	KE	1.15	1.28	843
27	8:25am	AR	1.11	1.29	703
28	7:41am	JK	1.19	1.37	643
29	7:23am	JK	1.17	1.40	659
30	7:15am	AR	1.24	1.41	663
31	7:14am	AR	1.17	1.39	652
				Total Monthly Consumption	21,438

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
7	7:45am	JK	0.01
16	7:45am	AR	0.00

Date	Time	Initials	Ammonia (mg/L)
21	7:50am	JK	0.00
28	7:55am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
7	7:10am	JK	329 Brownstone Dr	1.16	1.32
21	7:12am	JK	329 Brownstone Dr	1.23	1.40

Submitted by (Print): Andrew Rempel **Signature:** Andrew Rempel

PLEASE REFER TO OPERATING LICENCE FOR APPLICABLE TREATMENT STANDARDS AND MONITORING REQUIREMENTS.
PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: Feb **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M^3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:30am	RP	.95	1.25	683
2	7:35am	KE	1.06	1.21	686
3	7:30am	JK	1.05	1.26	807
4	7:55am	JK	1.06	1.25	689
5	7:26am	JK	1.04	1.25	632
6	7:35am	JK	1.04	1.24	670
7	7:51am	AR	1.05	1.25	689
8	8:22am	KH	1.00	1.15	632
9	8:29am	KH	0.96	1.18	754
10	7:30am	JK	0.98	1.16	822
	8:37am	JK	0.98	1.14	713
12	8:25am	JK	0.97	1.12	646
13	7:22am	JK	1.00	1.19	653
14	7:22am	JK	1.01	1.18	676
15	7:31am	KS	1.24	1.30	616
16	8:15am	RP	1.03	1.20	755

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	8:50am	RP	1.03	1.22	774
18	7:47am	AR	1.01	1.21	795
19	8:15am	AR	0.99	1.19	691
20	8:21am	AR	1.02	1.21	695
21	7:17am	AR	1.03	1.21	612
22	7:04am	KP	1.01	1.17	639
23	7:05am	RP	.89	1.11	768
24	7:09am	AR	0.99	1.24	838
25	6:50am	JK	0.98	1.18	643
26	6:48am	JK	0.96	1.19	675
27	7:15am	JK	0.96	1.13	672
28	7:20am	JK	0.90	1.10	689
29					
30					
31					
				Total Monthly Consumption	19,614

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
4	8:18am	JK	0.00
12	8:35am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
18	8:09am	AR	0.00
26	1:30pm	JK	0.00

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
4	7:26am	JK	501 Centre Street	1.03	1.21
18	7:32am	AR	309 Branstone Dr	0.77	0.82

Submitted by (Print): Andrew Rempel **Signature:** [signature]

PLEASE REFER TO OPERATING LICENCE FOR APPLICABLE TREATMENT STANDARDS AND MONITORING REQUIREMENTS.
PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: Mar **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M^3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L) Free	Residuals (mg/L) Total	Daily Consumption
1	7:06am	KP	1.05	1.07	648
2	2:45pm	KE	0.93	1.10	1061
3	7:16am	JK	0.93	1.12	473
4	7:47am	JK	0.95	1.13	713
5	7:22am	JK	1.04	1.17	649
6	7:15am	JK	1.05	1.24	679
7	7:02am	JK	1.06	1.27	653
8	7:28	KE	0.97	1.27	674
9	8:00	KP	1.09	1.32	736
10	7:16am	JK	1.17	1.34	799
11	7:20am	JK	1.20	1.36	706
12	7:17am	JK	1.16	1.34	655
13	7:18am	JK	1.07	1.24	660
14	7:19am	JK	1.05	1.26	674
15	7:00am	KP	1.13	1.29	637
16	7:10am	KE	1.17	1.29	748

Date	Time	Initials	Residuals (mg/L) Free	Residuals (mg/L) Total	Daily Consumption
17	7:47am	JK	1.16	1.38	871
18	7:38am	JK	1.16	1.34	690
19	7:54am	JK	1.11	1.33	701
20	7:25am	JK	1.10	1.34	650
21	7:17am	JK	1.07	1.30	674
22	730am	MV	1.16	1.32	663
23	4:15	KE	1.13	1.27	1160
24	8:05am	JK	1.06	1.29	457
25	7:24am	JK	1.03	1.27	634
26	7:17am	JK	1.04	1.25	662
27	7:18am	JK	0.98	1.20	675
28	7:30am	JK	1.03	1.22	690
29	754am	KE	1.07	1.24	661
30	750am	KE	1.11	1.25	717
31	7:20am	JK	1.09	1.28	758
				Total Monthly Consumption	21,818

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
4	8:00am	JK	0.01
11	7:40am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
18	7:55am	JK	0.00
25	7:34am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L) Free	Residuals (mg/L) Total
4	7:20am	JK	1 Arena road	0.93	1.08
18	7:15am	JK	329 Bronstone Dr	1.14	1.31

Submitted by (Print): Andrew Rempel **Signature:** Andrew Rempel

PLEASE REFER TO OPERATING LICENCE FOR APPLICABLE TREATMENT STANDARDS AND MONITORING REQUIREMENTS.
PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: April **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:33am	JK	1.11	1.28	675
2	7:30am	JK	1.17	1.35	636
3	7:17am	JK	1.12	1.29	632
4	7:20am	JK	1.09	1.26	634
5	3:10pm	RR	1.05	1.24	967
6	7:40am	KE	1.10	1.23	350
7	7:30am	JK	1.04	1.24	810
8	7:26am	JK	1.05	1.25	678
9	7:23am	JK	1.03	1.23	689
10	7:23am	JK	1.04	1.18	705
11	7:27am	JK	0.97	1.19	707
12	1:30pm	RR	0.99	1.23	977
13	7:37am	KE	1.08	1.22	477
14	7:20am	JK	1.00	1.20	799
15	8:07am	JK	1.01	1.19	740
16	7:20am	JK	1.00	1.19	637

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:20am	JK	0.93	1.14	693
18	7:45am	KE	0.95	1.12	619
19	6:10pm	MV	1.05	1.20	1147
20	8:07AM	MV	1.15	1.27	303
21	7:24am	JK	1.06	1.26	789
22	7:19am	JK	1.07	1.26	733
23	7:20am	JK	1.07	1.28	688
24	7:20am	JK	1.13	1.30	675
25	7:30am	JK	1.11	1.31	676
26	7:30am	KE	1.17	1.31	656
27	5:10pm	MV	0.88	1.00	1244
28	7:30am	JK	1.09	1.28	395
29	7:48am	JK	1.09	1.26	706
30	7:28am	JK	1.03	1.20	723
31					
				Total Monthly Consumption	21,168

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
1	7:49am	JK	0.00
8	7:40am	JK	0.00
15	8:18am	JK	0.00
22	7:33am	JK	0.00
29	8:08am	JK	0.01

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
1	7:08am	JK	329 Bronstone	1.06	1.21
15	7:37am	JK	435 6th Ave	0.98	1.12
29	7:20am	JK	30 Van Riesen	0.78	0.88

Submitted by (Print): Andrew Rempel **Signature:** [signature]

PLEASE REFER TO OPERATING LICENCE FOR APPLICABLE TREATMENT STANDARDS AND MONITORING REQUIREMENTS.
PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: May **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:13am	AR	1.05	1.25	690
2	7:33am	JK	1.12	1.30	725
3	1:40 pm	KP	1.22	1.37	1005
4	7:37am	KE	1.19	1.44	569
5	7:43am	JK	1.25	1.51	1043
6	7:38am	JK	1.36	1.58	829
7	7:30am	JK	1.38	1.59	793
8	7:18am	JK	1.27	1.50	869
9	7:05am	JK	1.20	1.34	813
10	7:50am	JK	1.15	1.37	913
	2:25pm	MV	0.72	0.87	1453
12	7:25am	JK	1.25	1.49	786
13	7:50am	JK	1.25	1.47	1081
14	7:18am	AR	1.17	1.38	919
15	7:26am	JK	1.18	1.40	893
16	7:20am	JK	1.20	1.40	768

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	1020	MV	1.39	140	792
18	9:40am	JK	1.18	135	687
19	12:42pm	KE	1.20	1.37	922
20	7:21am	JK	1.15	1.34	672
21	7:24am	AR	1.14	1.33	765
22	7:18am	JK	1.15	1.31	820
23	7:35am	JK	1.04	1.25	969
24	12:30pm	KP	1.02	1.18	1237
25	5:28pm	AR	1.09	1.27	1562
26	7:22am	JK	1.15	1.36	797
27	7:25am	AR	1.14	1.35	1247
28	7:28am	AR	1.07	1.27	1120
29	7:25am	AF	1.04	1.24	1216
30	7:25am	JK	1.04	1.24	1194
31	7:45am	JE	1.09	1.21	1250

Total Monthly Consumption 29,399

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
6	7:53am	JK	0.00
13	8:00am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
20	7:40am	JK	0.00
27	7:5cam	JK	0.00

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
13	7:22am	JK	821 Turnberry	1.22	1.37
27	7:16am	JK	10 Prestwick	1.06	1.20

Submitted by (Print): Andrew Rempel **Signature:** Andrew Rempel

PLEASE REFER TO OPERATING LICENCE FOR APPLICABLE TREATMENT STANDARDS AND MONITORING REQUIREMENTS.
PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: June **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M^3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	9:31am	JK	1.13	1.30	1485
2	7:20am	JK	1.04	1.21	1394
3	7:12am	JK	1.01	1.17	809
4	7:20am	JK	0.99	1.08	938
5	7:16am	JK	1.00	1.16	1018
6	7:12am	JK	1.05	1.23	1095
7	6:50am	JB	1.08	1.22	968
8	1:05pm	BK	0.98	1.17	1134
9	7:14am	JK	1.08	1.25	607
10	7:44am	JK	1.06	1.26	790
11	7:15am	AR	1.07	1.26	756
12	7:23am	JK	1.08	1.24	891
13	7:30am	JK	1.19	1.36	928
14	7:22am	JB	1.20	1.36	928
15	7:33am	JK	1.21	1.39	1076
16	7:18am	AR	1.27	1.44	1172

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:18am	JK	1.24	1.40	959
18	7:15am	JK	1.12	1.32	992
19	7:22am	JK	1.09	1.26	907
20	7:20am	JK	1.07	1.22	1151
21	7:03am	JB	1.07	1.20	1041
22	7:16am	JB	1.06	1.24	1128
23	7:10am	AR	1.06	1.23	907
24	7:50am	JK	1.02	1.18	850
25	7:10am	AR	0.99	1.14	889
26	7:10am	JK	0.99	1.10	816
27	7:10am	AR	0.99	1.13	915
28	6:46am	JB	1.06	1.13	911
29	7:22am	JB	1.02	1.15	923
30	7:24am	JK	1.04	1.23	1044
31					
				Total Monthly Consumption	29,422

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
3	7:25am	JK	0.01
10	7:55am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)
17	7:30am	JK	0.00
24	8:10am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
10	7:25am	JK	425 6th Ave	1.04	1.19
24	7:30am	JK	1 Arena Road	1.02	1.12

Submitted by (Print): Andrew Rempel **Signature:** Andrew Rempel

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PLEASE CONTACT YOUR DRINKING WATER OFFICER WITH ANY COMMENTS, QUESTIONS OR CONCERNS.

Manitoba

Monthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: July **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:12am	AR	1.01	1.22	944
2	7:14am	JK	0.94	1.08	1144
3	7:20am	JK	1.02	1.16	938
4	7:21am	JK	0.94	1.10	925
5	6:53am	JB	0.98	1.13	806
6	8:30 am	JH	1.06	1.22	1040
7	7:15am	JK	1.05	1.23	1095
8	7:25am	JK	1.04	1.31	816
9	8:00am	JK	1.14	1.25	906
10	7:38am	JK	1.11	1.28	937
11	8:02am	JK	1.16	1.32	979
12	6:56am	JB	1.09	1.27	745
13	9:51am	JH	1.07	1.23	1113
14	7:15am	AR	1.06	1.24	1095
15	7:15am	JK	1.06	1.23	784
16	7:15am	AR	1.00	1.18	755

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:27am	RR	1.06	1.19	871
18	7:21am	JK	0.98	1.14	988
19	6:59am	JB	1.10	1.29	909
20	7:29am	RR	1.17	1.37	996
21	7:10am	JK	1.27	1.48	1027
22	7:30am	JK	1.28	1.49	791
23	7:16am	AR	1.26	1.44	704
24	7:19am	AR	1.19	1.43	813
25	7:14am	AR	1.15	1.38	895
26	6:59am	JB	1.18	1.33	811
27	8:54am	RR	1.14	1.26	985
28	7:20am	JK	1.13	1.27	817
29	7:16am	JK	1.12	1.33	807
30	7:20am	JK	1.10	1.28	907
31	7:15am	JK	1.08	1.25	926
				Total Monthly Consumption	28,269

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
1	7:31am	AR	0.00
9	8:10am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)
15	7:30am	JK	0.00
22	7:45am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
29	7:20am	JK	0.00

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
9	7:30am	JK	1 Arepa road	1.05	1.23
22	7:10am	JK	329 Brownstone	1.23	1.38

Submitted by (Print): Andrew Rempel **Signature:** [signature]

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Manitoba

onthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: August **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:39am	AR	1.10	1.21	1023
2	6:57am	JB	1.05	1.23	943
3	7:05am	RR	0.96	1.27	992
4	6:43am	JH	1.07	1.20	958
5	7:45am	JK	1.05	1.17	1144
6	7:15am	AR	0.99	1.21	826
7	7:14am	AR	1.00	1.20	785
8	7:35am	JK	0.95	1.13	808
9	9:13am	RR	0.97	1.08	800
10	9:08am	RR	0.99	1.09	744
11	7:45am	JK	1.00	1.17	779
12	8:30am	JK	0.96	1.13	793
13	7:18am	JK	0.97	1.08	738
14	7:32am	JK	0.96	1.12	943
15	7:21am	JK	0.94	1.09	895
16	6:46am	JB	0.92	1.09	864

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:02am	RR	0.90	1.10	882
18	7:19am	JK	0.85	1.00	885
19	7:43am	JK	0.89	1.09	774
20	7:11am	AR	0.95	1.12	810
21	9:25am	JK	0.94	1.16	862
22	7:35am	JK	0.95	1.14	650
23	9:04am	RR	0.99	1.16	783
24	7:08am	RR	0.97	1.12	689
25	7:13am	AR	1.04	1.22	900
26	7:10am	AR	1.01	1.21	780
27	7:15am	AR	0.99	1.21	834
28	7:30am	RD	0.98	1.21	772
29	7:14am	AR	0.95	1.17	770
30	7:01am	JB	0.97	1.18	802
31	8:57am	JH	1.06	1.28	862
				Total Monthly Consumption	26,090

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
5	8:00am	JK	0.00
12	8:45am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)
19	7:55am	JK	0.00
26	7:27am	AR	0.00

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
5	7:15am	JK	425 6th Ave	1.04	1.20
19	7:20am	JK	1 Arena Road	0.86	1.00

Submitted by (Print): Andrew Rempel **Signature:** Andrew Rempel

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Manitoba

onthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151,25

Month: Sept **Year:** 2025 **Type of Measurement Device:** Hach DR 890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	9:32am	JH	1.15	1.35	861
2	7:31am	AR	1.09	1.31	853
3	7:23am	AR	1.14	1.34	843
4	7:18am	JK	1.10	1.27	813
5	7:20am	JK	1.09	1.30	808
6	7:35AM	DT	1.12	1.39	735
7	11:05AM	LL	1.10	1.36	1009
8	8:00am	AR	1.16	1.36	833
9	7:23am	JK	1.12	1.32	764
10	7:23am	JK	1.10	1.24	865
11	7:26am	AR	1.06	1.25	816
12	8:44am	JK	1.00	1.25	816
13	10:05am	LL	1.06	1.26	748
14	12:38PM	DT	1.11	1.26	918
15	7:17am	JK	1.11	1.31	655
16	7:45am	AR	1.11	1.34	837

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:15am	AR	1.11	1.33	761
18	7:15am	JK	1.07	1.27	783
19	7:25am	JK	1.04	1.23	777
20	10:30am	LL	0.88	1.13	888
21	8:31am	DT	1.03	1.25	678
22	8:05am	JK	1.05	1.23	894
23	7:14am	AR	1.03	1.21	725
24	7:19am	AR	1.02	1.21	763
25	7:40am	JK	0.99	1.17	796
26	7:22am	JK	1.04	1.18	772
27	8:36AM	BM	1.01	1.22	1316
28	8:55AM	DT	1.00	1.22	247
29	7:14am	AR	1.04	1.25	835
30	9:40am	DT	1.04	1.25	780
31					
				Total Monthly Consumption	24192

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
2	7:45am	AR	0.00
9	7:35am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
16	8:03am	AR	0.00
23	7:30am	AR	0.01

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
2	7:15am	AR	19 Glencagles Street	0.94	1.10
16	7:35am	AR	12 Vista Cove	1.10	1.28

Submitted by (Print): Jim Kehler **Signature:** Jim Kehler

Manitoba

onthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: October **Year:** 2025 **Type of Measurement Device:** Hach DR 890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:50 am	JK	1.04	1.22	882
2	7:26am	AR	1.04	1.23	752
3	7:46 am	AR	1.05	1.25	767
4	2:14pm	DT	1.02	1.22	992
5	8:33AM	DT	0.98	1.18	482
6	7:17am	AR	1.01	1.16	862
7	7:38am	JK	1.01	1.19	770
8	7:20am	JK	1.00	1.19	760
9	7:10am	JK	1.00	1.18	732
10	7:13am	AR	0.96	1.16	751
11	4:39pm	LL	0.98	1.20	1199
12	8:32AM	DT	0.97	1.19	362
13	9:58AM	DT	1.05	1.25	849
14	7:30am	JK	1.14	1.31	832
15	9:17am	JK	1.11	1.29	878
16	8:32am	AR	1.13	1.33	738

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:17am	JK	1.11	1.25	672
18	10am	LL	1.06	1.32	808
19	8:56AM	DT	1.10	1.29	715
20	7:12am	JK	1.08	1.25	840
21	7:12am	JK	1.09	1.27	772
22	7:10 am	JK	1.05	1.25	749
23	7:14am	JK	1.04	1.19	725
24	7:31am	AR	1.05	1.26	714
25	10:45am	LL	1.07	1.28	855
26	8:56am	DT	1.01	1.25	684
27	7:13am	JK	0.97	1.15	814
28	7:30am	JK	0.95	1.12	752
29	7:34am	JK	1.01	1.17	735
30	8:08am	JK	1.04	1.20	774
31	7:22am	JK	1.04	1.20	706
				Total Monthly Consumption	23903

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
1	8:07am	JK	0.00
7	7:50am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)
14	7:45am	JK	0.00
21	7:24am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
28	7:45am	JK	0.00

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
1	7:30am	JK	89 Aberdeen	1.00	1.13
14	7:15am	JK	329 Brownstone dr.	1.06	1.17
28	7:15am	JK	1 Arena Road	0.93	1.03

Submitted by (Print): Jim Kehler **Signature:** Jim Kehler

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Manitoba

onthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: November **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M^3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	8:55AM	DT	1.02	1.20	757
2	4:15pm	LL	1.05	1.25	1286
3	7:19am	AR	1.02	1.24	455
4	7:50am	JK	1.04	1.19	780
5	7:17am	JK	1.04	1.18	722
6	7:21am	JK	1.00	1.18	724
7	7:17am	JK	1.00	1.12	725
8	5:29pm	KP	0.99	1.18	749
9	3:30pm	LL	0.98	1.18	1103
10	7:35am	JK	0.94	1.15	481
11	4:45pm	LL	1.01	1.18	1164
12	7:45am	JK	0.98	1.18	462
13	7:14am	AR	1.00	1.22	719
14	7:25am	AR	1.02	1.23	750
15	9:35AM	DT	1.00	1.23	770
16	10:10AM	DT	1.06	1.28	835

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	8:00am	JK	1.09	1.22	769
18	7:20am	JK	1.05	1.24	731
19	7:19am	JK	1.03	1.16	740
20	7:20am	JK	1.05	1.16	754
21	7:23am	JK	1.07	1.21	757
22	8:14pm	KP	1.01	1.17	746
23	7:22am	BK	1.00	1.21	807
24	7:13am	AR	1.05	1.20	891
25	7:33am	AR	1.06	1.24	753
26	7:15am	JK	1.05	1.17	728
27	7:15am	JK	1.04	1.22	754
28	7:16am	AR	1.15	1.32	716
29	7:49am	BK	1.34	1.54	728
30	8:58AM	DT	1.40	1.62	863
31					
				Total Monthly Consumption	23227

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
4	8:00am	JK	0.00
12	7:55am	JK	0.00

Date	Time	Initials	Ammonia (mg/L)
18	7:30am	JK	0.01
25	7:50am	AR	0.00

Date	Time	Initials	Ammonia (mg/L)

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
12	7:45am	JK	1 Arena Road	0.95	1.12
25	7:17am	AR	231 Kingshead Road	0.91	1.09

Submitted by (Print): Jim Kehler **Signature:** Jim Kehler

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Manitoba

onthly Chlorination Report

Water System Name: Spruce Drive WTP **Water System Code:** 151.25

Month: December **Year:** 2025 **Type of Measurement Device:** Hach DR890

Operator-in-charge (Print): Ryan Dyck **Other Operators (Print):** Andrew Rempel, Jim Kehler

Daily Consumption Units: M3

Flow Meter for Daily Consumption: (circle choice) Raw (Treated) No Metering

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
1	7:41am	JK	1.52	1.77	879
2	7:17am	AR	1.47	1.71	734
3	8:37am	AR	1.41	1.64	793
4	8:37am	JK	1.37	1.57	750
5	7:15am	AR	1.33	1.55	675
6	8:38am	KP	1.29	1.52	780
7	8:35am	DT	1.23	1.46	830
8	7:15am	AR	1.23	1.46	860
9	7:40am	JK	1.23	1.44	795
10	8:56am	AR	1.15	1.34	803
11	7:12am	AR	1.05	1.25	693
12	7:59am	JK	1.00	1.19	792
13	7:51am	BK	0.98	1.18	702
14	9:11AM	DT	1.09	1.26	876
15	8:02am	AR	1.09	1.31	859
16	7:13 am	JK	1.15	1.29	720

Date	Time	Initials	Residuals (mg/L)		Daily Consumption
			Free	Total	
17	7:16am	JK	1.05	1.24	785
18	10:52am	JK	1.04	1.28	828
19	7:45am	AR	0.98	1.20	724
20	7:03pm	KP	1.04	1.22	713
21	10:30am	LL	1.05	1.26	965
22	1:25pm	AR	1.05	1.27	955
23	7:20am	AR	1.04	1.23	510
24	7:35am	AR	1.04	1.22	770
25	8:15AM	RD	1.03	1.22	795
26	9:30pm	LL	1.04	1.22	1263
27	9:00am	LL	0.98	1.17	204
28	8:50AM	DT	0.93	1.23	707
29	8:20am	AR	0.98	1.15	806
30	7:22am	JK	0.96	1.13	713
31	7:22am	JK	0.94	1.12	747
				Total Monthly Consumption	24026

Ammonia in Treated Water

Date	Time	Initials	Ammonia (mg/L)
2	7:32am	AR	0.00
9	7:55am	JK	0.01

Date	Time	Initials	Ammonia (mg/L)
16	7:26am	JK	0.00
23	7:34am	AR	0.00

Date	Time	Initials	Ammonia (mg/L)
30	7:38am	JK	0.00

Residuals at Distribution Sample Locations

Date	Time	Initials	Location	Residuals (mg/L)	
				Free	Total
9	7:10am	JK	329 Bronstone Dr	1.24	1.40
23	7:07am	AR	309 Bronstone Dr	0.81	0.91

mitted by (Print): Jim Kehler **Signature:** Jim Kehler

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Niverville WTP - Chlorine Report - January 2025

Water System Code: 151.25

Instrument Location: Distribution Chlorine

Lead Operator: Ryan Dyck

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	9:16 AM	JK	1.26	1.08	1.04	1.04	1.03	288	0	100.0	700.1
2	8:19 AM	JK	1.27	1.12	1.08	1.07	1.03	288	0	100.0	686.7
3	8:35 AM	JK	1.34	1.14	1.11	1.10	1.05	288	0	100.0	705.3
4	7:15 AM	KP	1.35	1.17	1.10	1.10	1.08	288	0	100.0	723.6
5	7:20 AM	KE	1.38	1.20	1.12	1.13	1.09	288	0	100.0	796.2
6	7:30 AM	JK	1.39	1.21	1.16	1.13	1.12	288	0	100.0	700.4
7	7:30 AM	JK	1.39	1.17	1.11	1.17	1.10	288	0	100.0	671.2
8	7:35 AM	JK	1.42	1.20	1.22	1.22	1.19	288	0	100.0	703.0
9	7:38 AM	JK	1.43	1.23	1.20	1.20	1.19	288	0	100.0	686.0
10	7:57 AM	JK	1.39	1.20	1.20	1.19	1.18	288	0	100.0	664.3
11	10:14 AM	KH	1.33	1.17	1.18	1.18	1.15	288	0	100.0	732.4
12	8:06 AM	KE	1.36	1.23	1.17	1.16	1.15	288	0	100.0	801.4
13	7:46 AM	JK	1.36	1.17	1.16	1.15	1.14	288	0	100.0	694.5
14	7:30 AM	JK	1.34	1.14	1.14	1.14	1.09	288	0	100.0	659.7
15	7:30 AM	JK	1.34	1.17	1.14	1.13	1.09	288	0	100.0	656.1
16	7:26 AM	AR	1.30	1.12	1.13	1.14	1.12	288	0	100.0	675.4
17	7:45 AM	JK	1.32	1.13	1.13	1.13	1.10	288	0	100.0	676.6
18	7:02 AM	KP	1.30	1.15	1.10	1.13	1.08	288	0	100.0	736.5
19	8:11 AM	KH	1.33	1.12	1.17	1.17	1.15	288	0	100.0	821.9
20	9:35 AM	JK	1.48	1.25	1.21	1.21	1.19	288	0	100.0	694.8
21	7:37 AM	JK	1.49	1.28	1.23	1.28	1.20	288	0	100.0	660.8
22	7:40 AM	JK	1.52	1.32	1.31	1.29	1.26	288	0	100.0	672.7
23	7:36 AM	JK	1.47	1.24	1.26	1.24	1.21	288	0	100.0	674.9
24	7:18 AM	JK	1.37	1.18	1.21	1.19	1.16	288	0	100.0	667.5
25	8:36 AM	KH	1.26	1.13	1.16	1.15	1.14	288	0	100.0	741.8
26	10:45 AM	KE	1.28	1.15	1.14	1.15	1.11	288	0	100.0	794.7
27	8:25 AM	AR	1.29	1.11	1.18	1.14	1.10	288	0	100.0	702.7
28	7:41 AM	JK	1.37	1.19	1.12	1.17	1.11	288	0	100.0	670.5
29	7:23 AM	JK	1.40	1.17	1.17	1.20	1.15	288	0	100.0	682.2
30	7:15 AM	AR	1.41	1.24	1.23	1.22	1.18	288	0	100.0	667.5
31	7:14 AM	AR	1.39	1.17	1.17	1.16	1.12	288	0	100.0	698.1
							Monthly Total	8928	0		
							Compliance with Chlorine Standard:		100.0%		

Submitted by (Print): Andrew Rempel

Signature: 

Niverville WTP - Chlorine Report - February 2025

Water System Code: 151.25

Instrument Location: Distribution Chlorine

Lead Operator: Ryan Dyck

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
			Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:30 AM	RP	1.25	0.95	1.12	1.10	1.06	288	0	100.0	719.2
2	7:35 AM	KE	1.21	1.06	1.06	1.06	1.04	288	0	100.0	790.9
3	7:30 AM	JK	1.26	1.05	1.06	1.05	1.03	288	0	100.0	690.1
4	7:55 AM	JK	1.25	1.06	1.04	1.05	1.03	288	0	100.0	659.9
5	7:26 AM	JK	1.25	1.04	1.07	1.06	1.04	288	0	100.0	672.3
6	7:35 AM	JK	1.24	1.04	1.06	1.07	1.02	288	0	100.0	680.6
7	7:51 AM	AR	1.25	1.05	1.07	1.07	1.04	288	0	100.0	674.2
8	8:22 AM	KH	1.15	1.00	1.04	1.04	1.02	288	0	100.0	757.9
9	8:29 AM	KH	1.18	0.96	1.04	1.05	1.02	288	0	100.0	834.9
10	7:30 AM	JK	1.16	0.98	1.07	1.00	0.94	288	0	100.0	694.8
11	8:37 AM	JK	1.14	0.98	0.95	0.93	0.90	288	0	100.0	659.4
12	8:25 AM	JK	1.12	0.97	0.92	0.93	0.91	288	0	100.0	695.7
13	7:22 AM	JK	1.19	1.00	0.96	0.98	0.94	288	0	100.0	708.2
14	7:22 AM	JK	1.18	1.01	1.00	1.01	0.94	288	0	100.0	647.6
15	7:31 AM	KP	1.20	1.04	1.02	1.01	1.00	288	0	100.0	740.6
16	8:15 AM	RP	1.20	1.03	1.02	1.01	0.98	288	0	100.0	741.9
17	8:50 AM	RP	1.22	1.03	1.02	1.02	0.99	288	0	100.0	832.6
18	7:47 AM	AR	1.21	1.01	1.02	1.02	1.00	288	0	100.0	689.0
19	8:15 AM	AR	1.19	0.99	1.00	1.00	0.98	288	0	100.0	689.7
20	8:21 AM	AR	1.21	1.02	1.01	1.01	0.99	288	0	100.0	685.5
21	7:17 AM	AR	1.21	1.03	0.99	0.98	0.97	288	0	100.0	679.8
22	7:09 AM	KP	1.17	1.01	0.96	0.96	0.93	288	0	100.0	766.6
23	7:05 AM	RP	1.11	0.89	0.95	0.95	0.93	288	0	100.0	845.7
24	7:09 AM	AR	1.24	0.99	0.97	0.96	0.95	288	0	100.0	672.6
25	6:50 AM	JK	1.18	0.98	0.97	0.97	0.94	288	0	100.0	687.0
26	6:48 AM	JK	1.19	0.96	0.98	0.97	0.94	288	0	100.0	666.7
27	7:15 AM	JK	1.13	0.96	0.94	0.93	0.91	288	0	100.0	700.9
28	7:20 AM	JK	1.10	0.90	0.91	0.91	0.89	288	0	100.0	684.3
							Monthly Total	**8064**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - March 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:06 AM	KP	1.07	1.05	0.88	0.88	0.87	288	0	100.0	733.8
2	2:45 PM	KE	1.10	0.97	0.92	0.90	0.85	288	0	100.0	789.9
3	7:18 AM	JK	1.12	0.93	0.94	0.94	0.92	288	0	100.0	706.3
4	7:47 AM	JK	1.13	0.95	0.95	0.96	0.94	288	0	100.0	687.7
5	7:22 AM	JK	1.17	1.04	0.99	1.04	0.95	288	0	100.0	685.3
6	7:15 AM	JK	1.24	1.05	1.09	1.07	1.02	288	0	100.0	684.6
7	7:02 AM	JK	1.27	1.06	1.06	1.06	1.02	288	0	100.0	683.9
8	7:28 AM	KE	1.27	0.97	1.06	1.09	1.05	288	0	100.0	756.4
9	8:00 AM	RP	1.32	1.09	1.13	1.12	1.10	288	0	100.0	813.9
10	7:16 AM	JK	1.34	1.17	1.13	1.16	1.13	288	0	100.0	709.0
11	7:20 AM	JK	1.36	1.20	1.21	1.20	1.17	288	0	100.0	682.5
12	7:17 AM	JK	1.34	1.16	1.19	1.18	1.15	288	0	100.0	669.5
13	7:18 AM	JK	1.24	1.07	1.16	1.10	1.06	288	0	100.0	687.7
14	7:19 AM	JK	1.26	1.05	1.08	1.06	1.05	288	0	100.0	679.8
15	7:06 AM	KP	1.29	1.13	1.06	1.06	1.03	288	0	100.0	753.7
16	7:10 AM	KE	1.29	1.17	1.05	1.09	1.04	288	0	100.0	827.3
17	7:47 AM	JK	1.38	1.16	1.12	1.10	1.09	288	0	100.0	723.4
18	7:38 AM	JK	1.34	1.16	1.06	1.15	1.06	288	0	100.0	696.4
19	7:54 AM	JK	1.33	1.11	1.19	1.13	1.09	288	0	100.0	691.9
20	7:25 AM	JK	1.34	1.10	1.12	1.12	1.06	288	0	100.0	695.8
21	7:17 AM	JK	1.30	1.07	1.14	1.09	1.05	288	0	100.0	686.5
22	7:30 AM	MV	1.32	1.16	1.07	1.05	1.04	288	0	100.0	766.1
23	4:15 PM	KE	1.27	1.13	1.01	1.02	1.00	288	0	100.0	824.3
24	8:05 AM	JK	1.29	1.06	1.01	1.03	0.99	288	0	100.0	686.4
25	7:24 AM	JK	1.27	1.03	1.05	1.04	1.02	288	0	100.0	669.4
26	7:17 AM	JK	1.25	1.04	1.04	1.03	1.01	288	0	100.0	684.8
27	7:18 AM	JK	1.20	0.98	1.02	0.99	0.96	288	0	100.0	702.2
28	7:30 AM	JK	1.22	1.03	0.98	1.02	0.95	288	0	100.0	694.6
29	7:54 AM	KE	1.24	1.07	1.04	1.06	1.00	288	0	100.0	730.2
30	7:50 AM	KE	1.25	1.11	1.10	1.09	1.06	288	0	100.0	762.5
31	7:20 AM	JK	1.28	1.09	1.08	1.08	1.06	288	0	100.0	683.2
							Monthly Total:	8928	0		
							Compliance with Chlorine Standard:		100.0%		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - April 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:33 AM	JK	1.28	1.11	1.09	1.10	1.06	288	0	100.0	648.7
2	7:30 AM	JK	1.35	1.17	1.13	1.14	1.11	288	0	100.0	656.7
3	7:17 AM	JK	1.29	1.12	1.12	1.11	1.07	288	0	100.0	639.9
4	7:20 AM	JK	1.26	1.09	1.08	1.07	1.05	288	0	100.0	659.8
5	3:10 PM	RP	1.24	1.05	1.05	1.04	1.02	288	0	100.0	707.8
6	7:40 AM	KE	1.23	1.10	1.01	1.01	0.97	288	0	100.0	779.7
7	7:30 AM	JK	1.24	1.04	1.03	1.03	1.01	288	0	100.0	697.1
8	7:26 AM	JK	1.25	1.05	1.02	1.01	1.00	288	0	100.0	706.8
9	7:20 AM	JK	1.23	1.03	1.01	1.01	0.99	288	0	100.0	706.2
10	7:23 AM	JK	1.18	1.04	1.02	1.02	1.00	288	0	100.0	721.5
11	7:27 AM	JK	1.19	0.97	1.00	0.98	0.96	288	0	100.0	718.8
12	1:30 PM	RP	1.23	0.99	0.98	0.97	0.95	288	0	100.0	799.2
13	7:37 AM	KE	1.22	1.08	0.98	0.97	0.92	288	0	100.0	796.4
14	7:20 AM	JK	1.20	1.00	0.96	0.98	0.93	288	0	100.0	699.4
15	8:07 AM	JK	1.19	1.01	1.00	0.98	0.96	288	0	100.0	690.7
16	7:20 AM	JK	1.19	1.00	0.98	0.97	0.95	288	0	100.0	703.3
17	7:20 AM	JK	1.14	0.93	0.97	0.94	0.90	288	0	100.0	661.0
18	7:45 AM	KE	1.12	0.95	0.93	0.92	0.91	288	0	100.0	708.4
19	6:10 PM	MV	1.20	1.05	0.98	0.95	0.91	288	0	100.0	733.1
20	8:07 AM	MV	1.27	1.15	0.96	0.99	0.95	288	0	100.0	817.7
21	7:24 AM	JK	1.26	1.06	0.99	1.03	0.97	288	0	100.0	742.9
22	7:19 AM	JK	1.26	1.07	1.05	1.06	1.00	288	0	100.0	689.9
23	7:20 AM	JK	1.28	1.07	1.09	1.08	1.07	288	0	100.0	699.3
24	7:20 AM	JK	1.30	1.13	1.07	1.12	1.06	288	0	100.0	682.6
25	7:30 AM	JK	1.31	1.11	1.16	1.13	1.09	288	0	100.0	697.3
26	7:30 AM	KE	1.31	1.17	1.13	1.13	1.11	288	0	100.0	802.8
27	5:10 PM	MV	1.00	0.88	1.08	1.09	1.06	288	0	100.0	825.3
28	7:30 AM	JK	1.28	1.09	1.06	1.05	1.04	288	0	100.0	718.4
29	7:48 AM	JK	1.26	1.09	1.03	1.02	1.01	288	0	100.0	733.5
30	7:28 AM	JK	1.20	1.03	1.02	1.01	0.97	288	0	100.0	712.9
							Monthly Total	**8640**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - May 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel, Jim Kehler

			Chlorine, ppm								
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
Day of Month	Time	Operator Initials	Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	Daily Usage (m^3)
1	7:13 AM	AR	1.25	1.05	1.04	1.03	0.99	288	0	100.0	738.5
2	7:33 AM	JK	1.30	1.12	1.04	1.11	1.02	288	0	100.0	724.1
3	1:40 PM	KP	1.37	1.22	1.18	1.18	1.11	288	0	100.0	904.1
4	7:37 AM	KE	1.44	1.19	1.25	1.28	1.23	288	0	100.0	1007.0
5	7:43 AM	JK	1.51	1.25	1.34	1.29	1.23	288	0	100.0	845.1
6	7:38 AM	JK	1.58	1.36	1.31	1.31	1.26	288	0	100.0	804.9
7	7:30 AM	JK	1.59	1.38	1.33	1.30	1.23	288	0	100.0	896.6
8	7:18 AM	JK	1.50	1.27	1.23	1.21	1.15	288	0	100.0	831.9
9	7:05 AM	JK	1.34	1.20	1.15	1.16	1.12	288	0	100.0	910.2
10	7:50 AM	JK	1.37	1.15	1.15	1.17	1.12	288	0	100.0	1012.6
11	2:25 PM	MV	0.87	0.72	1.28	1.26	1.20	288	0	100.0	1200.7
12	7:25 AM	JK	1.49	1.25	1.29	1.25	1.21	288	0	100.0	1050.5
13	7:50 AM	JK	1.47	1.25	1.24	1.19	1.16	288	0	100.0	970.8
14	7:18 AM	AR	1.38	1.17	1.16	1.16	1.11	288	0	100.0	909.2
15	7:26 AM	JK	1.40	1.18	1.15	1.15	1.11	288	0	100.0	813.3
16	7:20 AM	JK	1.40	1.20	1.16	1.18	1.14	288	0	100.0	729.2
17	10:20 AM	MV	1.40	1.35	1.16	1.17	1.15	288	0	100.0	735.6
18	9:40 AM	JK	1.35	1.18	1.17	1.18	1.14	288	0	100.0	761.6
19	12:42 PM	KE	1.37	1.20	1.18	1.18	1.16	288	0	100.0	911.1
20	7:21 AM	JK	1.34	1.15	1.16	1.15	1.13	288	0	100.0	719.1
21	7:24 AM	AR	1.33	1.14	1.13	1.12	1.10	288	0	100.0	869.7
22	7:18 AM	JK	1.31	1.15	1.09	1.13	1.08	288	0	100.0	947.4
23	7:35 AM	JK	1.25	1.04	1.15	1.04	0.97	288	0	100.0	946.3
24	12:30 PM	RP	1.18	1.02	0.96	0.96	0.94	288	0	100.0	1235.1
25	5:28 PM	AR	1.27	1.09	1.00	0.99	0.95	288	0	100.0	1436.8
26	7:22 AM	JK	1.36	1.15	1.08	1.12	1.05	288	0	100.0	1282.5
27	7:25 AM	AR	1.35	1.14	1.14	1.12	1.08	288	0	100.0	1116.2
28	7:28 AM	AR	1.27	1.07	1.08	1.07	1.00	288	0	100.0	1230.7
29	7:25 AM	AF	1.24	1.04	1.06	1.06	1.03	287	0	100.0	1199.7
30	7:25 AM	JK	1.24	1.04	1.06	1.05	1.03	288	0	100.0	1279.6
31	7:45 AM	JB	1.21	1.09	1.06	1.06	1.03	288	0	100.0	1364.9
							Monthly Total	**8927**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - June 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
			Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	9:31 AM	JK	1.30	1.13	1.11	1.09	1.06	288	0	100.0	1498.0
2	7:20 AM	JK	1.21	1.04	1.03	1.01	0.98	288	0	100.0	898.2
3	7:12 AM	JK	1.17	1.01	0.99	0.98	0.96	288	0	100.0	923.9
4	7:20 AM	JK	1.08	0.99	0.97	0.96	0.94	288	0	100.0	1034.4
5	7:16 AM	JK	1.16	1.00	0.97	0.98	0.94	288	0	100.0	1108.4
6	7:12 AM	JK	1.23	1.05	1.04	1.04	1.02	288	0	100.0	1025.5
7	6:50 AM	JB	1.22	1.08	1.04	1.05	1.00	288	0	100.0	895.4
8	1:05 PM	BK	1.17	0.98	1.10	1.10	1.07	288	0	100.0	879.7
9	7:14 AM	JK	1.25	1.08	1.11	1.09	1.07	288	0	100.0	767.9
10	7:44 AM	JK	1.26	1.06	1.09	1.08	1.05	288	0	100.0	809.7
11	7:15 AM	AR	1.26	1.07	1.08	1.09	1.04	288	0	100.0	877.4
12	7:23 AM	JK	1.24	1.08	1.16	1.11	1.08	288	0	100.0	931.4
13	7:30 AM	JK	1.36	1.19	1.13	1.13	1.10	288	0	100.0	974.3
14	7:22 AM	JB	1.36	1.20	1.14	1.15	1.12	288	0	100.0	1085.3
15	7:33 AM	JK	1.39	1.21	1.18	1.16	1.14	288	0	100.0	1149.0
16	7:18 AM	AR	1.44	1.27	1.16	1.22	1.12	288	0	100.0	994.4
17	7:18 AM	JK	1.40	1.24	1.26	1.23	1.17	288	0	100.0	1000.2
18	7:15 AM	JK	1.32	1.12	1.15	1.15	1.11	288	0	100.0	934.3
19	7:22 AM	JK	1.26	1.09	1.10	1.11	1.08	288	0	100.0	1109.5
20	7:20 AM	JK	1.22	1.07	1.10	1.08	1.06	288	0	100.0	1112.0
21	7:13 AM	JB	1.20	1.07	1.08	1.07	1.05	288	0	100.0	1157.6
22	7:16 AM	JB	1.24	1.06	1.09	1.09	1.06	288	0	100.0	921.2
23	7:10 AM	AR	1.23	1.06	1.08	1.07	1.05	288	0	100.0	815.7
24	7:50 AM	JK	1.18	1.02	1.05	1.03	1.00	288	0	100.0	930.8
25	7:10 AM	AR	1.14	0.99	1.00	0.99	0.97	288	0	100.0	847.7
26	7:10 AM	JK	1.10	0.99	1.01	1.01	0.97	288	0	100.0	925.9
27	7:10 AM	AR	1.13	0.99	1.02	1.02	0.99	288	0	100.0	964.6
28	6:46 AM	JB	1.13	1.06	1.06	1.04	1.01	288	0	100.0	926.7
29	7:22 AM	JB	1.15	1.02	1.05	1.06	1.04	288	0	100.0	1023.8
30	7:24 AM	JK	1.23	1.04	1.08	1.09	1.06	288	0	100.0	989.1
							Monthly Total	8640	0		
							Compliance with Chlorine Standard:		100.0%		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - July 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel, Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:12 AM	AR	1.22	1.01	1.07	1.02	0.96	288	0	100.0	1150.9
2	7:14 AM	JK	1.02	0.94	1.00	0.98	0.95	288	0	100.0	926.1
3	7:20 AM	JK	1.16	1.02	0.99	0.97	0.96	288	0	100.0	968.4
4	7:21 AM	JK	1.10	0.94	0.96	0.98	0.94	288	0	100.0	854.1
5	6:53 AM	JB	1.13	0.98	1.02	1.03	0.99	288	0	100.0	993.1
6	8:30 AM	JH	1.22	1.06	1.05	1.04	1.02	288	0	100.0	1123.0
7	7:15 AM	JK	1.23	1.05	1.08	1.09	1.04	288	0	100.0	845.1
8	7:25 AM	JK	1.31	1.04	1.10	1.09	1.06	288	0	100.0	865.6
9	8:00 AM	JK	1.25	1.14	1.09	1.11	1.07	288	0	100.0	964.6
10	7:38 AM	JK	1.28	1.11	1.15	1.14	1.12	288	0	100.0	989.0
11	8:02 AM	JK	1.32	1.16	1.13	1.12	1.10	288	0	100.0	842.5
12	6:56 AM	JB	1.27	1.09	1.12	1.11	1.07	288	0	100.0	963.9
13	9:51 AM	JH	1.23	1.07	1.08	1.07	1.05	288	0	100.0	1185.0
14	7:15 AM	AR	1.24	1.06	1.07	1.06	1.03	288	0	100.0	865.9
15	7:15 AM	JK	1.23	1.06	1.04	1.03	1.01	288	0	100.0	754.6
16	7:15 AM	AR	1.18	1.00	1.02	1.01	1.00	288	0	100.0	888.0
17	7:27 AM	RR	1.19	1.06	1.01	1.03	0.98	288	0	100.0	977.4
18	7:21 AM	JK	1.14	0.98	1.09	1.12	1.03	288	0	100.0	973.2
19	6:59 AM	JB	1.29	1.10	1.22	1.22	1.19	288	0	100.0	1001.4
20	7:29 AM	RR	1.37	1.17	1.25	1.27	1.20	288	0	100.0	1009.3
21	7:10 AM	JK	1.48	1.27	1.32	1.32	1.25	288	0	100.0	826.7
22	7:30 AM	JK	1.49	1.28	1.31	1.30	1.28	288	0	100.0	728.6
23	7:16 AM	AR	1.44	1.26	1.31	1.26	1.22	288	0	100.0	818.6
24	7:19 AM	AR	1.43	1.19	1.21	1.20	1.18	288	0	100.0	904.9
25	7:14 AM	AR	1.38	1.15	1.18	1.19	1.17	288	0	100.0	863.4
26	6:59 AM	JB	1.33	1.18	1.19	1.18	1.15	288	0	100.0	893.3
27	8:54 AM	RR	1.26	1.14	1.15	1.15	1.13	288	0	100.0	898.1
28	7:20 AM	JK	1.27	1.13	1.17	1.15	1.13	288	0	100.0	815.4
29	7:16 AM	JK	1.33	1.12	1.14	1.13	1.11	288	0	100.0	874.8
30	7:20 AM	JK	1.28	1.10	1.13	1.11	1.09	288	0	100.0	984.3
31	7:15 AM	JK	1.25	1.08	1.10	1.09	1.07	288	0	100.0	985.5
							Monthly Total	**8928**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Andrew Rempel

Signature: Andrew Rempel

Niverville WTP - Chlorine Report - August 2025

Water System Code: 151.25

Instrument Location: Distribution Chlorine

Lead Operator: Ryan Dyck

Other Operators: Andrew Rempel , Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
			Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:39 AM	AR	1.21	1.10	1.09	1.09	1.07	288	0	100.0	1023.1
2	6:57 AM	JB	1.23	1.05	1.08	1.07	1.05	288	0	100.0	1015.2
3	7:05 AM	RR	1.27	0.96	1.06	1.08	1.05	288	0	100.0	961.2
4	6:43 AM	JH	1.20	1.07	1.06	1.06	1.03	288	0	100.0	1131.9
5	7:45 AM	JK	1.17	1.05	1.04	1.02	1.00	288	0	100.0	828.6
6	7:15 AM	AR	1.21	0.99	1.03	1.02	1.00	288	0	100.0	841.8
7	7:14 AM	AR	1.20	1.00	1.01	1.00	0.98	288	0	100.0	796.1
8	7:35 AM	JK	1.13	0.95	1.01	1.00	0.98	288	0	100.0	796.8
9	9:13 AM	RR	1.08	0.97	0.99	0.98	0.96	288	0	100.0	761.9
10	9:08 AM	RR	1.09	0.99	1.00	0.99	0.96	288	0	100.0	834.2
11	7:45 AM	JK	1.17	1.00	1.00	0.99	0.96	288	0	100.0	776.9
12	8:30 AM	JK	1.13	0.96	0.98	0.97	0.96	288	0	100.0	771.8
13	7:18 AM	JK	1.08	0.97	0.98	0.98	0.97	288	0	100.0	937.0
14	7:32 AM	JK	1.12	0.96	0.98	0.97	0.93	288	0	100.0	898.7
15	7:21 AM	JK	1.09	0.94	0.96	0.94	0.91	288	0	100.0	940.2
16	6:46 AM	JB	1.09	0.92	0.93	0.92	0.90	288	0	100.0	879.1
17	7:02 AM	RR	1.10	0.90	0.94	0.93	0.90	288	0	100.0	882.9
18	7:19 AM	JK	1.00	0.85	0.93	0.86	0.82	288	0	100.0	793.7
19	7:43 AM	JK	1.09	0.89	0.84	0.89	0.81	288	0	100.0	791.5
20	7:11 AM	AR	1.12	0.95	0.90	0.96	0.94	288	0	100.0	861.1
21	9:25 AM	JK	1.16	0.94	0.95	0.96	0.92	288	0	100.0	703.0
22	7:35 AM	JK	1.14	0.95	0.99	0.95	0.92	288	0	100.0	760.4
23	9:09 AM	RR	1.16	0.99	0.95	0.94	0.92	288	0	100.0	772.3
24	7:08 AM	RR	1.12	0.97	0.98	0.96	0.93	288	0	100.0	887.8
25	7:13 AM	AR	1.22	1.04	0.97	1.02	0.95	288	0	100.0	803.9
26	7:10 AM	AR	1.21	1.01	1.05	1.05	1.02	288	0	100.0	817.9
27	7:15 AM	AR	1.21	0.99	1.05	0.98	0.93	288	0	100.0	802.2
28	7:30 AM	RD	1.21	0.98	0.95	0.95	0.90	288	0	100.0	784.6
29	7:14 AM	AR	1.17	0.95	0.97	0.96	0.94	288	0	100.0	860.0
30	7:01 AM	JB	1.18	0.97	0.96	0.97	0.94	288	0	100.0	808.4
31	8:57 AM	JH	1.28	1.06	1.03	1.04	0.97	288	0	100.0	825.6
							Monthly Total	8928	0		
							Compliance with Chlorine Standard:		100.0%		

Submitted by (Print): Andrew Rempel

Signature:

Oct 1, 2025

Niverville WTP - Chlorine Report - September 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel , Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	9.32 AM	JH	1.35	1.15	1.06	1.07	1.04	288	0	100.0	938.7
2	7:31 AM	AR	1.31	1.09	1.07	1.08	1.03	288	0	100.0	814.3
3	7:23 AM	AR	1.34	1.14	1.11	1.10	1.05	288	0	100.0	867.8
4	7:18 AM	JK	1.27	1.10	1.10	1.08	1.02	288	0	100.0	807.8
5	7:20 AM	JK	1.30	1.09	1.11	1.10	1.08	288	0	100.0	793.7
6	7:35 AM	DT	1.39	1.12	1.01	1.11	1.08	288	0	100.0	831.0
7	11:25 AM	LL	1.36	1.10	1.13	1.13	1.09	288	0	100.0	948.3
8	8:00 AM	AR	1.36	1.16	1.10	1.13	1.09	288	0	100.0	833.3
9	7:23 AM	JK	1.32	1.12	1.12	1.11	1.09	288	0	100.0	844.0
10	7:23 AM	JK	1.24	1.10	1.10	1.09	1.06	288	0	100.0	862.1
11	7:26 AM	AR	1.25	1.06	1.09	1.08	1.05	288	0	100.0	768.8
12	8:44 AM	JK	1.25	1.00	1.09	1.08	1.05	288	0	100.0	765.8
13	10:05 AM	LL	1.26	1.06	1.10	1.09	1.06	288	0	100.0	767.8
14	12:38 PM	DT	1.26	1.11	1.13	1.12	1.08	288	0	100.0	899.0
15	7:17 AM	JK	1.31	1.11	1.13	1.13	1.10	288	0	100.0	828.6
16	7:45 AM	AR	1.34	1.11	1.12	1.13	1.09	288	0	100.0	772.6
17	7:15 AM	AR	1.33	1.11	1.14	1.11	1.09	288	0	100.0	818.4
18	7:15 AM	JK	1.27	1.07	1.09	1.06	1.04	288	0	100.0	775.8
19	7:25 AM	JK	1.23	1.04	1.07	1.06	1.04	288	0	100.0	814.5
20	10:20 AM	LL	1.13	0.88	1.08	1.06	1.04	288	0	100.0	796.2
21	8:31 AM	DT	1.25	1.03	1.08	1.06	1.01	288	0	100.0	865.7
22	8:05 AM	JK	1.23	1.05	1.07	1.04	1.01	288	0	100.0	786.8
23	7:14 AM	AR	1.21	1.03	1.04	1.03	1.01	288	0	100.0	748.2
24	7:19 AM	AR	1.21	1.02	1.06	1.04	1.00	288	0	100.0	817.3
25	7:40 AM	JK	1.17	0.99	1.03	1.02	1.00	288	0	100.0	792.6
26	7:22 AM	JK	1.18	1.04	1.03	1.05	1.00	288	0	100.0	771.0
27	8:30 PM	BM	1.22	1.01	1.03	1.04	1.02	288	0	100.0	818.2
28	8:55 AM	DT	1.22	1.00	1.05	1.04	1.00	288	0	100.0	871.9
29	7:14 AM	AR	1.25	1.04	1.06	1.05	1.03	288	0	100.0	769.9
30	9:20 AM	DT	1.25	1.04	1.03	1.04	0.99	288	0	100.0	859.1
							Monthly Total	**8640**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Jim Kehler

Signature: Jim Kehl

Niverville WTP - Chlorine Report - October 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel , Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
			Distribution Chlorine								
			Total Chlorine	Operator Verification		Automation Records		Number of Free Chlorine Readings			
				Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:50 AM	JK	1.22	1.04	1.05	1.04	1.01	288	0	100.0	820.0
2	7:26 AM	AR	1.23	1.04	1.02	1.02	0.99	288	0	100.0	758.3
3	7:48 AM	AR	1.25	1.05	1.02	1.03	1.01	288	0	100.0	746.4
4	2:14 PM	DT	1.22	1.02	1.03	1.02	0.98	288	0	100.0	798.0
5	8:32 AM	DT	1.18	0.98	0.99	1.00	0.95	288	0	100.0	846.4
6	7:17 AM	AR	1.16	1.01	1.01	1.00	0.99	288	0	100.0	788.4
7	7:38 AM	JK	1.19	1.01	0.99	0.98	0.74	288	0	100.0	780.0
8	7:20 AM	JK	1.19	1.00	1.00	0.99	0.96	288	0	100.0	749.5
9	7:10 AM	JK	1.18	1.00	1.00	0.98	0.94	288	0	100.0	780.9
10	7:13 AM	AR	1.16	0.96	0.97	0.95	0.91	288	0	100.0	747.4
11	4:30 PM	LL	1.20	0.98	0.99	0.96	0.93	288	0	100.0	834.2
12	8:32 AM	DT	1.19	0.97	0.99	0.99	0.97	288	0	100.0	777.6
13	9:58 AM	DT	1.25	1.05	1.04	1.04	0.98	288	0	100.0	904.8
14	7:30 AM	JK	1.31	1.14	1.07	1.09	1.05	288	0	100.0	830.2
15	9:17 AM	JK	1.29	1.11	1.10	1.10	1.04	288	0	100.0	763.0
16	8:32 AM	AR	1.33	1.13	1.13	1.13	1.11	288	0	100.0	761.7
17	7:17 AM	JK	1.25	1.11	1.12	1.11	1.09	288	0	100.0	725.4
18	10:00 AM	LL	1.32	1.06	1.13	1.10	1.08	288	0	100.0	810.6
19	8:56 AM	DT	1.29	1.10	1.09	1.07	1.04	288	0	100.0	864.6
20	7:12 AM	JK	1.25	1.08	1.05	1.03	1.00	288	0	100.0	789.5
21	7:12 AM	JK	1.27	1.09	1.01	1.00	0.97	288	0	100.0	762.5
22	7:10 AM	JK	1.25	1.05	0.98	0.96	0.93	288	0	100.0	731.5
23	7:14 AM	JK	1.19	1.04	0.94	0.94	0.92	288	0	100.0	727.8
24	7:31 AM	AR	1.26	1.05	0.94	1.00	0.93	288	0	100.0	731.9
25	10:45 AM	KP	1.20	1.07	1.01	1.01	0.98	288	0	100.0	781.2
26	8:56 AM	DT	1.25	1.01	0.99	0.98	0.93	288	0	100.0	871.4
27	7:13 AM	JK	1.15	0.97	0.94	0.93	0.90	288	0	100.0	733.4
28	7:30 AM	JK	1.12	0.95	0.93	0.93	0.90	288	0	100.0	755.0
29	7:34 AM	JK	1.17	1.01	0.98	0.97	0.95	288	0	100.0	740.2
30	8:08 AM	JK	1.20	1.04	0.99	0.97	0.95	288	0	100.0	763.7
31	7:20 AM	JK	1.20	1.04	0.99	1.02	0.96	288	0	100.0	741.1
							Monthly Total	**8928**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Jim Kehler

Signature: Jim Kehler

Niverville WTP - Chlorine Report - November 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel , Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
			Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	8:55 AM	DT	1.20	1.02	1.03	1.03	1.00	288	0	100.0	858.6
2	4:15 PM	LL	1.25	1.05	1.04	1.04	0.97	288	0	100.0	918.2
3	7:19 AM	AR	1.24	1.02	1.05	1.04	1.02	300	0	100.0	784.8
4	7:50 AM	JK	1.19	1.04	1.02	1.03	1.01	288	0	100.0	758.1
5	7:17 AM	JK	1.18	1.04	1.04	1.04	1.02	288	0	100.0	750.3
6	7:21 AM	JK	1.18	1.00	1.02	1.02	0.98	288	0	100.0	734.4
7	7:17 AM	JK	1.12	1.00	0.99	1.00	0.98	288	0	100.0	747.9
8	8:29 AM	KP	1.18	0.99	1.01	1.00	0.98	288	0	100.0	801.6
9	3:30 PM	LL	1.18	0.98	0.98	0.98	0.96	288	0	100.0	822.2
10	7:35 AM	JK	1.15	0.94	0.98	1.00	0.96	288	0	100.0	744.0
11	4:45 PM	LL	1.18	1.01	1.01	1.02	1.00	288	0	100.0	876.8
12	7:45 AM	JK	1.18	0.98	1.01	1.01	0.99	288	0	100.0	757.8
13	7:14 AM	AR	1.22	1.00	1.03	1.04	1.01	288	0	100.0	758.6
14	7:25 AM	AR	1.23	1.02	1.05	1.05	1.01	288	0	100.0	718.9
15	9:30 AM	DT	1.23	1.00	1.05	1.05	1.02	288	0	100.0	811.2
16	10:10 AM	DT	1.28	1.06	1.06	1.07	1.05	288	0	100.0	852.7
17	8:00 AM	JK	1.22	1.09	1.07	1.06	1.02	288	0	100.0	758.0
18	7:20 AM	JK	1.24	1.05	1.07	1.05	1.02	288	0	100.0	769.9
19	7:19 AM	JK	1.16	1.03	1.05	1.04	1.01	288	0	100.0	755.2
20	7:20 AM	JK	1.16	1.05	1.05	1.04	1.01	288	0	100.0	778.5
21	7:23 AM	JK	1.21	1.07	1.05	1.04	1.02	288	0	100.0	769.6
22	8:14 AM	KP	1.17	1.01	1.02	1.02	0.99	288	0	100.0	843.1
23	7:22 AM	BK	1.21	1.00	1.02	1.02	0.99	288	0	100.0	898.5
24	7:13 AM	AR	1.20	1.05	1.01	1.01	0.99	288	0	100.0	745.2
25	7:33 AM	AR	1.24	1.06	1.01	1.02	0.99	288	0	100.0	763.1
26	7:15 AM	JK	1.17	1.05	1.02	1.01	0.99	288	0	100.0	763.2
27	7:15 AM	JK	1.22	1.04	1.00	1.04	0.97	288	0	100.0	727.3
28	7:16 AM	AR	1.32	1.15	1.17	1.08	0.00	288	22	92.4	750.4
29	7:49 AM	BK	1.54	1.34	1.26	1.27	1.25	288	0	100.0	837.4
30	8:52 AM	DT	1.62	1.40	1.30	1.32	1.26	288	0	100.0	894.8
							Monthly Total	**8652**	**22**		
							Compliance with Chlorine Standard:		**99.7%**		

Submitted by (Print): Jim Kehler

Signature: Jim Kehler

CORRECTIVE ACTION REPORT

Manitoba
Water Stewardship

WATER SYSTEM: Spruce Drive WTP **WATER SYSTEM CODE:** 151.25

LOCATION OF NON-COMPLIANCE INCIDENT (ex. Water Plant): WTP

OPERATOR: Jim Kehler **Signature:** Jim Kehler

TYPE OF NON-COMPLIANCE INCIDENT:

- [x] Low disinfectant residual entering the distribution system, 21(1) MR 40/2007
- [ ] Low disinfectant residual in the distribution system, 22 MR 40/2007
- [ ] Filtered water turbidity exceeding the turbidity standard, 6(1) MR 41/2007
- [ ] Low positive total coliform (< 10 CFU/100mL), 3 MR 41/2007
- [ ] Other

INITIAL TEST RESULTS: 0.00 Free **DATE:** Nov 28/25

DESCRIPTION OF CORRECTIVE ACTIONS TAKEN (attach additional sheets if required):

On Nov 28/25 We cleaned and calibrated our chlorine reader, causing 22 readings of 0.00 Free.

Actual chlorine reading before cleaning was 1.15 Free.

TEST RESULTS AFTER CORRECTIVE ACTIONS: 1.15 Free **DATE:** Nov 28/25

(attach laboratory results if applicable)

EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER ON SITUATIONS REQUIRING IMMEDIATE REPORTING.

DISTRIBUTION:

FORWARD THE ORIGINAL TO YOUR DRINKING WATER OFFICER WITH YOUR MONTHLY DISINFECTION OR TURBIDITY MONITORING REPORT

RETAIN A COPY FOR YOUR RECORDS

Contact your Drinking Water Officer with any comments, questions or concerns.

Niverville WTP - Chlorine Report - December 2025

Water System Code: 151.25

Lead Operator: Ryan Dyck

Instrument Location: Distribution Chlorine

Other Operators: Andrew Rempel , Jim Kehler

Day of Month	Time	Operator Initials	Chlorine, ppm								Daily Usage (m^3)
				Distribution Chlorine							
				Operator Verification		Automation Records		Number of Free Chlorine Readings			
			Total Chlorine	Free Chlorine Handheld	Free Chlorine Display	Average	Minimum	Total	Below Standard	% Within Standard	
1	7:41 AM	JK	1.77	1.52	1.36	1.46	1.34	288	0	100.0	774.1
2	7:17 AM	AR	1.71	1.47	1.49	1.46	1.42	288	0	100.0	730.8
3	8:37 AM	AR	1.64	1.41	1.42	1.40	1.35	288	0	100.0	775.3
4	8:37 AM	JK	1.57	1.37	1.34	1.35	1.33	288	0	100.0	749.0
5	7:15 AM	AR	1.55	1.33	1.35	1.32	1.30	288	0	100.0	768.3
6	8:38 AM	KP	1.52	1.29	1.30	1.29	1.24	288	0	100.0	854.3
7	8:35 AM	DT	1.46	1.23	1.24	1.24	1.19	288	0	100.0	884.9
8	7:15 AM	AR	1.46	1.23	1.24	1.23	1.21	288	0	100.0	798.3
9	7:40 AM	JK	1.44	1.23	1.22	1.20	1.14	288	0	100.0	757.3
10	8:56 AM	AR	1.34	1.15	1.14	1.12	1.06	288	0	100.0	768.6
11	7:12 AM	AR	1.25	1.05	1.04	1.03	0.99	288	0	100.0	778.2
12	7:59 AM	JK	1.19	1.00	0.99	1.00	0.97	288	0	100.0	759.4
13	7:51 AM	DK	1.18	0.98	1.01	1.03	0.99	288	0	100.0	835.6
14	9:11 AM	DT	1.26	1.09	1.08	1.09	1.06	288	0	100.0	881.2
15	8:02 AM	AR	1.31	1.09	1.11	1.13	1.06	288	0	100.0	768.4
16	7:13 AM	JK	1.29	1.15	1.16	1.14	1.09	288	0	100.0	804.3
17	7:16 AM	JK	1.24	1.05	1.09	1.09	1.07	288	0	100.0	756.3
18	10:52 AM	JK	1.28	1.04	1.09	1.07	1.02	288	0	100.0	805.3
19	7:45 AM	AR	1.20	0.98	1.05	1.04	1.01	288	0	100.0	778.9
20	7:03 AM	KP	1.22	1.04	1.04	1.06	1.03	288	0	100.0	808.7
21	10:30 AM	LL	1.26	1.05	1.08	1.07	1.05	288	0	100.0	857.4
22	1:25 PM	AR	1.27	1.05	1.05	1.06	1.04	288	0	100.0	775.9
23	7:20 AM	AR	1.23	1.04	1.03	1.05	1.03	288	0	100.0	783.8
24	7:35 AM	AR	1.23	1.04	1.04	1.03	0.99	288	0	100.0	807.7
25	8:15 AM	RD	1.22	1.03	1.00	1.01	0.98	288	0	100.0	721.7
26	9:30 PM	LL	1.22	1.04	1.00	1.01	0.99	288	0	100.0	748.5
27	9:00 AM	LL	1.17	0.98	1.00	1.00	0.97	288	0	100.0	736.9
28	8:50 AM	DT	1.23	0.93	0.98	0.98	0.95	288	0	100.0	804.3
29	8:20 AM	AR	1.15	0.98	0.95	0.96	0.94	288	0	100.0	769.1
30	7:22 AM	JK	1.13	0.96	0.94	0.94	0.92	288	0	100.0	756.4
31	7:22 AM	JK	1.12	0.94	0.95	0.93	0.89	288	0	100.0	783.6
							Monthly Total	**8928**	**0**		
							Compliance with Chlorine Standard:		**100.0%**		

Submitted by (Print): Jim Kehler

Signature: Jim Kehler

2025 Bi-Weekly Sampling

				Free	Chlorine (mg/L)	
Date	**Address**	**T.C.**	**E.C**	**Ammonia**	**Free**	**Total**
7-Jan-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.01	1.17	1.39
	329 Bronstone Drive	< 1	< 1		1.16	1.32
21-Jan-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.28	1.49
	329 Bronestone Drive	< 1	< 1		1.23	1.40
4-Feb-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.06	1.25
	501 Centre Street	< 1	< 1		1.03	1.21
18-Feb-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.01	1.21
	309 Bronstone Drive	< 1	< 1		0.77	0.82
4-Mar-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.01	0.95	1.13
	1 Arena Road	< 1	< 1		0.93	1.08
18-Mar-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.16	1.34
	329 Bronstone Drive	< 1	< 1		1.14	1.31
1-Apr-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.11	1.28
	329 Bronstone Drive	< 1	< 1		1.06	1.21
15-Apr-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.01	1.19
	425 - 6th Ave South	< 1	< 1		0.98	1.12
29-Apr-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.01	1.09	1.26
	30 Van Riesen Drive	< 1	< 1		0.78	0.88
13-May-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.25	1.47
	821 Turnberry Cove	< 1	< 1		1.22	1.37
27-May-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.14	1.35
	10 Prestwick Street	< 1	< 1		1.06	1.20
10-Jun-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.01	1.06	1.26
	425 - 6th Ave South	< 1	< 1		1.04	1.19
24-Jun-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.02	1.18
	1 Arena Road	< 1	< 1		1.02	1.12
9-Jul-25	Raw Water	< 1	< 1		0.00	0.00

	Water Treatment Plant	< 1	< 1	0.01	1.14	1.25
	1 Arena Road	< 1	< 1		1.05	1.23
22-Jul-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.28	1.49
	329 Bronstone Drive	< 1	< 1		1.23	1.38
5-Aug-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.05	1.17
	425 - 6th Ave South	< 1	< 1		1.04	1.20
19-Aug-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	0.89	1.09
	1 Arena Road	< 1	< 1		0.86	1.00
2-Sep-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.09	1.31
	19 Gleneagles Street	< 1	< 1		0.94	1.10
16-Sep-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.11	1.34
	12 Vista Cove	< 1	< 1		1.10	1.28
1-Oct-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.04	1.22
	89 Aberdeen Drive	< 1	< 1		1.00	1.13
14-Oct-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.14	1.31
	329 Bronestone Drive	< 1	< 1		1.06	1.17
28-Oct-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	0.95	1.12
	1 Arena Road	< 1	< 1		0.93	1.03
12-Nov-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	0.98	1.18
	1 Arena Road	< 1	< 1		0.95	1.12
25-Nov-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.06	1.24
	231 Kingshead Road	< 1	< 1		0.91	1.09
9-Dec-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.01	1.23	1.44
	329 Bronstone Drive	< 1	< 1		1.24	1.40
23-Dec-25	Raw Water	< 1	< 1		0.00	0.00
	Water Treatment Plant	< 1	< 1	0.00	1.04	1.23
	309 Bronstone Drive	< 1	< 1		0.81	0.91

Manitoba
Health, Seniors and Active Living

Dr. Mahmoud Khodaveisi
Medical Officer of Health
180 Centennaire Dr. Southport MB R0H 1N1
www.manitoba.ca

July 4, 2025 Code: 151.25

Eric King, Chief Administrative Officer
Town of Niverville
Box 267
Niverville, MB R0A 1E0
ericking@whereyoubelong.ca

RE: BOIL WATER ADVISORY ISSUED TO NIVERVILLE SPRUCE DRIVE WATER SYSTEM: 11 TO 26 DENBY COVE, AND 11, 13, AND 15 HAWTHORNE WAY

Dear Eric King:

Scheduled maintenance to the water system will lead to the loss of water pressure in a portion of the Niverville Spruce Drive distribution system (11 to 26 Denby Cove, and 11, 13, and 15 Hawthorne Way). Distribution depressurization can compromise the safety of the water supply. A boil water advisory is being issued starting at 1:00pm on July 7, 2025, to ensure the protection of public health.

Section 17(1) of *The Drinking Water Safety Act* states that:

> *A boil water advisory may be issued by a medical officer if the person issuing the advisory reasonably believes that water from a water system is or may be unsafe for domestic purposes unless it is boiled or otherwise disinfected.*

I am requesting that you as owner of the water supply immediately advise all water users by the boil water advisory, reaching as many individuals and organizations in the fastest and most feasible way possible, by distributing the attached notice. Emphasis should be placed on public facilities with vulnerable users such as hospitals, personal care homes, day cares, and schools. In addition, a copy of the notice must be posted on your website and updated accordingly.

Water users must be advised that all water used for consumption be brought to a rolling boil for at least one minute. This includes water used for drinking, preparing food, making ice, washing vegetables and fruit, brushing teeth, and making infant formula. As an alternative, individuals may also choose to use a known safe source of water such as bottled water. Water may be used for general domestic purposes including hand washing, bathing and showering (provided the water is not swallowed), dishwashing and laundry.

Copies of the following Fact Sheets should be made available to the public at the municipal office:

- Boil Water Advisory Fact Sheet #1 – Boil Water Advisory For Drinking Water Only
- Boil Water Advisory Fact Sheet #3 – Boil Water Advisory for Commercial/Public Facilities

Fact sheets can be obtained from your Regional Drinking Water Officer, or are available at www.manitoba.ca/drinkingwater.

This Boil Water Advisory will remain in effect until the following actions are taken:

- The water main break has been repaired;
- There has been sufficient time or flushing following restoration of water services to ensure that any remaining potentially contaminated water in the distribution system has been eliminated;
- One set of bacteriological tests, including a minimum of three distribution samples from the affected area with results meeting regulatory standards;
- Comply with any other directives issued by the Office of Drinking Water or Medical Officer of Health.

Once the above conditions are met to the satisfaction of the Medical Officer of Health the advisory will be rescinded. The Office of Drinking Water needs to be contacted to confirm rescind conditions have been met prior to removing notices. At that time you will be issued a rescind letter to give notice to all water users that the conditions that led to the issuance of the advisory have been successfully addressed, the advisory has been rescinded and they can resume normal use of the water.

Should you have any questions, please contact Wajed Shah, Regional Drinking Water Officer at 204-408-8807.

Sincerely,

Dr. Mahmoud Khodaveisi
Medical Officer of Health
Southern Health – Santé Sud

cc:
Sacha Janzen – Director, Office of Drinking Water
Marc Balcaen – Manager, Field Operations, Office of Drinking Water
Wajed Shah – Regional Drinking Water Officer, Office of Drinking Water
Public Health Inspector - healthprotection@gov.mb.ca
Southern Health-Santé Sud Emergency Preparedness Program (DisasterManagement@southernhealth.ca)

Manitoba
Health, Seniors and Active Living
Dr. Davinder Singh
Medical Officer of Health
180 Centennaire Dr. Southport MB R0H 1N1
www.manitoba.ca

July 9 2025 Code: 151.25

Eric King, Chief Administrative Officer
Town of Niverville
Box 267
Niverville, MB R0A 1E0
ericking@whereyoubelong.ca

Re: BOIL WATER ADVISORY ISSUED TO NIVERVILLE SPRUCE DRIVE WATER SYSTEM: 11 TO 26 DENBY COVE, AND 11, 13, AND 15 HAWTHORNE WAY

Dear Eric King:

Drinking Water Officer, Wajed Shah has advised me that the Niverville Spruce Drive 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 the Niverville Spruce Drive water system on July 4, 2025.

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 Wajed Shah, Regional Drinking Water Officer at 204-408-8807.

Sincerely,

Dr. Davinder Singh
Medical Officer of Health
Southern Health – Santé Sud

cc:
Dr. Mahmoud Khodaveisi – Regional Medical Officer of Health
Sacha Janzen – Director, Office of Drinking Water
Marc Balcaen – Manager, Field Operations, Office of Drinking Water
Wajed Shah - Drinking Water Officer, Office of Drinking Water
healthprotection@gov.mb.ca – Public Health Inspector
Southern Health-Santé Sud Emergency Preparedness Program
(DisasterManagement@southernhealth.ca)

CERTIFICATE OF ANALYSIS

Work Order	:	**WP2601476**			
Client	:	**Town of Niverville**	Laboratory	:	ALS Environmental - Winnipeg
Contact	:	Andrew Rempel	Account Manager	:	Riya Gill
Address	:	PO Box 267 Niverville Manitoba Canada R0A 1E0	Address	:	1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	:	204-388-4600 ext 2213	E-mail	:	riya.gill@alsglobal.com
Project	:	----	Telephone	:	+1 204 255 9720
PO	:	----	Date Samples Received	:	05-Feb-2026 13:30
C-O-C number	:	----	Date Analysis Commenced	:	05-Feb-2026
Sampler	:	----	Issue Date	:	11-Feb-2026 12:08
Site	:	----			
Quote number	:	2026 Analytical Testing			
No. of samples received	:	2			
No. of samples analysed	:	2			

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Lee McTavish		Metals, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
% T/cm	% transmittance per centimetre
AU/cm	absorbance units per centimetre
CU	colour units (1 cu = 1 mg/l pt)
meq/L	milliequivalents per litre
mg/L	milligrams per litre
NTU	nephelometric turbidity units
pH units	pH units
µS/cm	microsiemens per centimetre

<: less than.
>: greater than.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Raw ----	Treated ----	----	----	----
					Client sampling date / time	05-Feb-2026 11:40	05-Feb-2026 11:40	----	----	----
						WP2601476-001	WP2601476-002	----	----	----
						Result	Result	----	----	----
Sample Preparation										
Dissolved carbon filtration location	----	EP358/WP	-	-		lab	lab	----	----	----
Physical Tests										
Absorbance, UV (@ 254nm)	----	E404/WP	0.0050	AU/cm		0.0370	0.0180	----	----	----
Alkalinity, bicarbonate (as CaCO3)	----	E290/WP	1.0	mg/L		282	152	----	----	----
Alkalinity, carbonate (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, hydroxide (as CaCO3)	----	E290/WP	1.0	mg/L		<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/WP	1.0	mg/L		282	152	----	----	----
Colour, true	----	E329/WP	5.0	CU		<5.0	<5.0	----	----	----
Conductivity	----	E100/WP	2.0	µS/cm		1180	643	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/WP	0.50	mg/L		170	84.9	----	----	----
Langelier index (@ 4°C)	----	EC105A/WP	0.010	-		0.294	-0.068	----	----	----
Langelier index (@ 60°C)	----	EC105A/WP	0.010	-		1.05	0.691	----	----	----
pH	----	E108/WP	0.10	pH units		8.05	8.19	----	----	----
Solids, total dissolved [TDS]	----	E162-L/WP	3.0	mg/L		634	327	----	----	----
Turbidity	----	E121/WP	0.10	NTU		2.21	<0.10	----	----	----
pH, saturation (@ 4°C)	----	EC105A/WP	0.010	pH units		7.76	8.26	----	----	----
Transmittance, UV (@ 254nm)	----	E404/WP	1.0	% T/cm		91.8	95.9	----	----	----
pH, saturation (@ 60°C)	----	EC105A/WP	0.010	pH units		7.00	7.50	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	0.0050	mg/L		0.853	<0.0050	----	----	----
Bromide	24959-67-9	E235.Br-T/WP	0.010	mg/L		0.207	0.022	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Raw ----	Treated ----	----	----	----
					Client sampling date / time	05-Feb-2026 11:40	05-Feb-2026 11:40	----	----	----
						WP2601476-001	WP2601476-002	----	----	----
						Result	Result	----	----	----
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl-L/WP	0.10	mg/L		194	106	----	----	----
Fluoride	16984-48-8	E235.F/WP	0.020	mg/L		0.857	0.462	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3-L/WP	0.0050	mg/L		<0.0050	0.220	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2-L/WP	0.0010	mg/L		0.0010	<0.0010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/WP	0.30	mg/L		34.5	17.8	----	----	----
Organic / Inorganic Carbon										
Carbon, dissolved organic [DOC]	----	E358-L/WP	0.50	mg/L		1.75	1.08	----	----	----
Carbon, total organic [TOC]	----	E355-L/WP	0.50	mg/L		2.03	1.07	----	----	----
Ion Balance										
Anion sum	----	EC101A/WP	0.10	meq/L		11.9	6.44	----	----	----
Cation sum (total)	----	EC101A/WP	0.10	meq/L		12.1	6.47	----	----	----
Ion balance (cations/anions)	----	EC101A/WP	0.01	%		102	100	----	----	----
Ion balance (APHA)	----	EC101A/WP	0.010	%		0.833	0.232	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/WP	0.0030	mg/L		0.215	0.207	----	----	----
Antimony, total	7440-36-0	E420/WP	0.00010	mg/L		Not Detected	Not Detected	----	----	----
Arsenic, total	7440-38-2	E420/WP	0.00010	mg/L		0.00401	0.00184	----	----	----
Barium, total	7440-39-3	E420/WP	0.00010	mg/L		0.0534	0.0263	----	----	----
Beryllium, total	7440-41-7	E420/WP	0.000020	mg/L		0.0000035	0.0000042	----	----	----
Bismuth, total	7440-69-9	E420/WP	0.000050	mg/L		Not Detected	Not Detected	----	----	----
Boron, total	7440-42-8	E420/WP	0.010	mg/L		0.617	0.594	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Raw ----	Treated ----	----	----	----
					Client sampling date / time	05-Feb-2026 11:40	05-Feb-2026 11:40	----	----	----
						WP2601476-001	WP2601476-002	----	----	----
						Result	Result	----	----	----
Total Metals										
Cadmium, total	7440-43-9	E420/WP	0.0000050	mg/L		0.0000011	Not Detected	----	----	----
Calcium, total	7440-70-2	E420/WP	0.050	mg/L		34.7	17.5	----	----	----
Cesium, total	7440-46-2	E420/WP	0.000010	mg/L		0.0000100	0.0000066	----	----	----
Chromium, total	7440-47-3	E420/WP	0.00050	mg/L		0.00017	0.00019	----	----	----
Cobalt, total	7440-48-4	E420/WP	0.00010	mg/L		0.00013	0.000042	----	----	----
Copper, total	7440-50-8	E420/WP	0.00050	mg/L		0.00341	0.0146	----	----	----
Iron, total	7439-89-6	E420/WP	0.010	mg/L		0.411	0.0066	----	----	----
Lead, total	7439-92-1	E420/WP	0.000050	mg/L		0.000110	0.000142	----	----	----
Lithium, total	7439-93-2	E420/WP	0.0010	mg/L		0.0477	0.0264	----	----	----
Magnesium, total	7439-95-4	E420/WP	0.0050	mg/L		20.2	10.0	----	----	----
Manganese, total	7439-96-5	E420/WP	0.00010	mg/L		0.00580	0.00200	----	----	----
Molybdenum, total	7439-98-7	E420/WP	0.000050	mg/L		0.00392	0.00196	----	----	----
Nickel, total	7440-02-0	E420/WP	0.00050	mg/L		0.00047	0.00032	----	----	----
Phosphorus, total	7723-14-0	E420/WP	0.050	mg/L		0.030	0.237	----	----	----
Potassium, total	7440-09-7	E420/WP	0.050	mg/L		9.98	5.43	----	----	----
Rubidium, total	7440-17-7	E420/WP	0.00020	mg/L		0.00505	0.00266	----	----	----
Selenium, total	7782-49-2	E420/WP	0.000050	mg/L		0.000032	0.000011	----	----	----
Silicon, total	7440-21-3	E420/WP	0.10	mg/L		5.28	2.74	----	----	----
Silver, total	7440-22-4	E420/WP	0.000010	mg/L		Not Detected	0.0000014	----	----	----
Sodium, total	7440-23-5	E420/WP	0.050	mg/L		192	106	----	----	----
Strontium, total	7440-24-6	E420/WP	0.00020	mg/L		0.513	0.258	----	----	----

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Analyte	CAS Number	Method/Lab	LOR	Unit	Raw ----	Treated ----	----	----	----
Client sample ID					Raw ----	Treated ----	----	----	----
Client sampling date / time					05-Feb-2026 11:40	05-Feb-2026 11:40	----	----	----
					WP2601476-001	WP2601476-002	----	----	----
					Result	Result	----	----	----
Total Metals									
Sulfur, total	7704-34-9	E420/WP	0.50	mg/L	12.8	6.31	----	----	----
Tellurium, total	13494-80-9	E420/WP	0.00020	mg/L	0.000088	0.000041	----	----	----
Thallium, total	7440-28-0	E420/WP	0.000010	mg/L	Not Detected	Not Detected	----	----	----
Thorium, total	7440-29-1	E420/WP	0.00010	mg/L	0.000011	0.000013	----	----	----
Tin, total	7440-31-5	E420/WP	0.00010	mg/L	0.000044	0.000062	----	----	----
Titanium, total	7440-32-6	E420/WP	0.00030	mg/L	0.00039	0.00041	----	----	----
Tungsten, total	7440-33-7	E420/WP	0.00010	mg/L	Not Detected	Not Detected	----	----	----
Uranium, total	7440-61-1	E420/WP	0.000010	mg/L	0.000274	0.000140	----	----	----
Vanadium, total	7440-62-2	E420/WP	0.00050	mg/L	0.00023	0.00024	----	----	----
Zinc, total	7440-66-6	E420/WP	0.0030	mg/L	0.00062	0.0067	----	----	----
Zirconium, total	7440-67-7	E420/WP	0.00020	mg/L	0.000039	0.000079	----	----	----

Please refer to the General Comments section for an explanation of any qualifiers detected.